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1868/69

ANNUAL REPORT

AND

TRANSACTIONS

OF THE

PLYMOUTH INSTITUTION

AND

Devon and Cornwall

NATURAL HISTORY SOCIETY.

VOLUME III. PART II.

1868-9.

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PLYMOUTH:

I. W. N. KEYS & SON, 52, BEDFORD STREET.

1869.

MAR 3 1969

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1869.

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SECRETARIES' REPORT.

1868-9.

YOUR Secretaries beg to report the following Lectures as delivered during the past Session:—

1868.

| | | |
|---------|--|-------------------------|
| Oct. 8. | The Icelandic Language and Literature | THE PRESIDENT. |
| „ 15. | Modern Researches in Palestine, especially in Jerusalem | Rev. Dr. HOLMES. |
| „ 22. | The Operations of the Palestine Exploration Fund at Jerusalem | Mr. W. MORRISON, M.P. |
| „ 29. | The Anglo-Saxon Chronicle | „ D. SLATER, M.A. |
| Nov. 5. | Perception | „ F. H. BALKWILL. |
| „ 12. | Electro-Magnetism..... | „ J. N. HEARDER, F.C.S. |
| „ 19. | Robert Browning's Plays | „ J. SHELLY. |
| „ 26. | Concerning some Theories of Perception | Rev. C. B. SYMES, B.A. |
| Dec. 3. | The Classics in Education | „ F. E. ANTHONY, M.A. |
| „ 10. | Early Christian Art | „ J. E. RISK, M.A. |
| „ 17. | On Sleep and Dreams | Dr. ALBERT HINGSTON. |

1869.

| | | |
|----------|---|---------------------------|
| Jan. 14. | On Metallurgy | Mr. R. OXLAND, F.C.S. |
| „ 21. | Dreams considered in a Psychological Point of View..... | Rev. J. M. CHARLTON, M.A. |
| „ 28. | Ditto ditto .. | Ditto. |
| Feb. 4. | The Olympic Games | Mr. J. C. CHARLTON, B.A. |
| „ 11. | Recent Earthquakes and Volcanic Eruptions | Mr. J. N. HEARDER, F.C.S. |
| „ 18. | Political Economy | „ W. F. COLLIER. |

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1869.

| | | |
|----------|---|-----------------------|
| Feb. 25. | The Bases of History..... | Mr. A. ROOKER. |
| Mar. 4. | Fashion: in Art, Furniture, and Dress | „ J. HINE. |
| „ 11. | The Air we breathe, in its practical bearing on Health | „ G. JACKSON. |
| „ 18. | Cranmer and his Times | Rev. F. H. SCRIVENER. |
| „ 25. | On Enthusiasm | Mr. R. COLLIER. |

By this list it will be seen that the subjects brought before the attention of the Society have been most varied, and that the chief departments of Literature and Science have been fairly represented; Art, however, being left almost untouched. On Literature proper, ancient and modern, there have been three lectures; on Philosophy, one; on History, two; on Antiquities and Antiquarian Research, four; on Political Economy, one; on Mental Philosophy, four; and on Science, five.

It is a matter for congratulation that a subject of such interest and importance as Mental Philosophy, and which of late years has but rarely found a place in the Lecture List, should have been so fully represented and so ably discussed this session. The introduction of another important branch of study, that of Political Economy, may be hailed with equal satisfaction. The debates that followed the papers read on these subjects amply proved that they are of great interest to the Members, and will always furnish unlimited scope for discussion and the interchange of opinions as diverse as they are stoutly held.

The attendance in the hall throughout the session gives an average of sixty-eight on each evening. The debates have, for the most part, maintained their interest.

At the Anniversary Meeting, on the 1st of May, papers were read to the Society—

On the popular Dutch Author, Katz, by Dr. BIKKERS.

On a double-spined Eagle Ray, caught by trawlers off Plymouth, by
Mr. SPENCE BATE, F.R.S.

On the Health of Plymouth during the month of March last, by Dr. ALBERT HINGSTON.

The *Conversazione*, at the commencement of this Session,—the only one held,—was confined chiefly to scientific objects.

Microscopes and Microscopic Specimens were kindly furnished by Drs. DANSEY and HINGSTON, and Mr. SPENCE BATE.

An Account of Tyndall's Singing and Sensitive Flames, with experiments in illustration, was given by Mr. HEARDER, F.C.S.

Some well-executed and interesting Photographs of Palestine and Ancient Ruins in the East were exhibited by Mr. HEATH.

In July, your Institution united with the Royal Institution of Cornwall in an excursion to the Cheesewring, and other objects of interest in the neighbourhood of Liskeard. About fourteen members joined the party.

The Church and Holy Well of St. Cleer, the Hurlers and the Cheesewring, the strange habitation of Daniel Gumb, the mad geometrician, Doniert's Monument, Trevethy Cromlech, and the Caradon Mines were all visited and examined; while a *Conversazione* at the Liskeard Town-hall brought to its close a day which will not soon be forgotten by those who had a share in its toils and pleasures.

Your Secretaries venture to hope that such a day may be repeated, in connection with the long-expected visit of the British Association at Exeter in August next. If any of the learned *savans*, who will be assembled there, can be induced to visit Plymouth and its charming neighbourhood, the officers and members of your Institution will not be backward in the effort to make their visit pleasant, and of pleasant memory. Some means must be devised by which the Plymouth Institution shall be identified with the presence of the British Association, in Devonshire, in the year 1869.

During the past Session one member of long standing has died, who was for many years Curator of Antiquities, and a frequent

lecturer, on kindred subjects. The memory of W. J. Spry invites a passing tribute of respect, as of one in whom untiring energy and unceasing thirst for knowledge were ever most conspicuous; physical weakness was eclipsed by the development of mental power, and what to some men would have been irretrievable misfortune, he made an element of success.

A brief memoir, appended to this Report, would be valued by those who have been associated with him in past discussions held in this hall.

Grateful acknowledgments are due to the Royal Physical Society of Edinburgh, for three vols. of their Transactions :

To the authorities of the Coast Survey Office of the United States, for the Report of the Superintendent of the U. S. Coast Survey for 1863-64, embodied in two large quarto volumes :

To Mr. Spence Bate, F.R.S., for the arrangement in the Museum of the very interesting Romano-British remains found at Staddon Heights, and presented by him to the Institution :

To Mr. T. R. Archer Briggs, for the gift of a fine specimen of the Stag Beetle (*L. cervus*), caught at Tamerton Foliot ;

And to Mr. G. C. Bignell, for many specimens of English Lepidoptera, and for good service now being rendered in the arrangement of that department of Entomology in the Museum.

The condition of the Library has engaged the attention of your Secretaries. Steps are being taken to bring it into a state of greater efficiency ; that, though small, it may be thoroughly available in promoting scientific research amongst your members.

The following serials are regularly received, and ultimately bound up in volumes as permanent additions to the Library :—

The Quarterly Journal of Science.

The Ibis. The Zoologist. The Entomologist.

The Annals and Magazine of Natural History.

The Philosophical Magazine.

Proceedings of the Zoological Society.

The Linnæan Journal.

The Entomologist's Monthly Magazine.

The Geological Magazine.

The Athenæum.

Your Secretaries congratulate the Institution on the addition of the following plants to the Flora of this neighbourhood, made by the energy and perseverance of one of its members (Mr. T. R. Archer Briggs):—*Hypericum hirsutum*; *Lamium incisum*; *Daphne Laureola*; *Polygonatum multiflorum*.

The following fish have been added to the Museum by Mr. Brooking Rowe, F.L.S.:—*Cyprinus Idus*, *Chimæra monstrosa* (Rabbit-fish).

In such results the purpose of the maintenance of such a Society as yours, and the value of its support, are most distinctly seen.

| | |
|----------------------|--------------------------------------|
| FREDERIC E. ANTHONY, | } <i>Hon.</i> <i>Secretaries.</i> |
| C. ALBERT HINGSTON, | |

Athenæum, April 1st, 1869.

TREASURERS' REPORT.

1868-9.

Presented at the Annual Meeting, April 1st, 1869.

IN presenting their Annual Report and Balance Sheet, your Treasurers regret to state that there has been no increase in the number of Subscribers during the past year. On the other hand, the amount received for the rent of the Hall for various purposes is considerably larger than usual.

The expenditure presents no occasion for special remark; the sum paid under the heading "Library" seems large, but this arises partly from the account of binding having remained open for some time. There are some outstanding accounts, but none of any importance except that for printing the last Report.

(Signed)

J. BROOKING ROWE.

The Plymouth Institution and Tebon and Cornwall Natural History Society,

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| 1868-9. | | 1868-9. | |
|--|-----------|------------------------------------|-----------|
| £. | s. d. | £. | s. d. |
| To Incidentals | 6 18 9½ | By Balance from last account.. | 55 8 2½ |
| „ Repairs | 25 7 1½ | „ Arrears of Subscriptions | 5 5 0 |
| „ Printing | 28 16 0 | „ Annual Subscriptions | 102 18 0 |
| „ Lighting and Warming | 17 4 3 | „ Ditto ditto (Junior) | 4 4 0 |
| „ Rates, Taxes, and Insurance | 12 13 8 | „ Rental of Hall | 67 4 0 |
| „ Salaries | 19 12 0 | „ Admissions | 0 4 0 |
| „ Museum | 6 7 1 | | |
| „ Library, Books, Magazines, &c. | 32 7 1 | | |
| „ Conversaziones | 6 8 1 | | |
| „ Interest | 12 0 0 | | |
| „ Balance | 67 9 1¼ | | |
| | £235 3 2½ | | £235 3 2½ |

Audited March 31st, 1869.

J. BOSWARVA,
T. W. COFFIN,

An ABSTRACT from the METEOROLOGICAL REGISTER, from 1st July, 1868, to 30th June, 1869,
 kept at the Navigation School, Gascoyne Place, Plymouth, (Latitude 50° 22½' N., Longitude 4° 7¼' W.,)
 by JOHN MERRIFIELD, F.R.A.S.

| STANDARD BAROMETER FOR MEAN LEVEL OF THE SEA, AT 32° FAHRT. | | | | SELF-REGISTERING THERMOMETERS (Negretti and Zambra's.) | | | | | | Average Wet Bulb for Month. | Average Dry Bulb for Month. | No. of Days on which Rain fell. | Amount during the Month. | REMARKS. | | |
|---|-----------------------|--------------------|----------------------------------|---|--------------------------------------|-------------------------------------|-----------------------|------|------|--------------------------------|--------------------------------|------------------------------------|---|----------|--|--|
| Maximum for Month. | Minimum for Month. | Mean for Month. | Average Minimum for Month. | Average Maximum for Month. | Average Temperature for Month. | Maximum (in shade) for Month. | Minimum for Month. | | | | | | | | | |
| 1868. | | | | | | | | | | | | | | | | |
| July | 30.340 | 29.768 | 30.078 | 55 | 79.3 | 67.1 | 89 | 45 | 70.2 | 63.7 | 3 | 4.030 | 1868.—JULY. — Barometer very steady throughout the month. | | | |
| August . . | 30.320 | 29.396 | 29.913 | 52.9 | 72.9 | 62.9 | 82 | 43 | 64.1 | 60.4 | 16 | 3.240 | | | | |
| September | 30.298 | 29.149 | 29.490 | 50.8 | 71 | 60.9 | 85 | 42 | 62.4 | 59.2 | 11 | | NOVEMBER. — Maximum Barometer for year, on the 13th. | | | |
| October . . | 30.457 | 29.645 | 29.998 | 41.6 | 59.2 | 50.4 | 68 | 32 | 50.5 | 48.8 | 20 | | | | | |
| November | 30.640 | 29.086 | 30.005 | 37.5 | 49.9 | 43.7 | 58 | 28 | 44.3 | 42.5 | 13 | | 1869. — JANUARY. — Minimum Barometer for year, on 28th. | | | |
| December | 30.184 | 29.051 | 29.516 | 45.8 | 53.8 | 49.8 | 65 | 36 | 49.4 | 47.9 | 29 | | | | | |
| 1869. | | | | | | | | | | | | | | | | |
| January . . | 30.493 | 28.898 | 29.955 | 42.5 | 50.3 | 46.4 | 55 | 30 | 46.3 | 44.7 | 20 | 4.030 | MAY.—A very cold month. | | | |
| February | 30.521 | 28.914 | 30.046 | 44.1 | 52.2 | 48.1 | 61 | 32 | 47.4 | 45.4 | 21 | 3.240 | | | | |
| March . . . | 30.275 | 29.268 | 29.854 | 36.4 | 48.4 | 42.4 | 56 | 28 | 42.5 | 39.2 | 14 | 3.070 | JUNE.—Barometer very steady throughout the month. | | | |
| April . . . | 30.290 | 29.340 | 30.012 | 45.5 | 60.9 | 53.2 | 72 | 32 | 52.9 | 49 | 13 | 1.370 | | | | |
| May | 30.172 | 29.113 | 29.785 | 45.4 | 59.3 | 52.4 | 65 | 35 | 53.9 | 50.5 | 18 | 5.300 | | | | |
| June . . . | 30.341 | 29.538 | 30.110 | 49.6 | 67.9 | 58.8 | 78 | 40 | 61.2 | 56.2 | 6 | .225 | | | | |
| Average for the Year . . } | 30.361 | 29.264 | 29.897 | 45.6 | 60.4 | 53 | 69.5 | 35.2 | 53.8 | 50.6 | 15.3 | 17.235 = | Total amount of Rain for six months. | | | |

The Observations are made between Eight and Nine a.m. The Instruments are supplied by the Meteorological Department, and compared at Kew.

FLORA OF DEVON AND CORNWALL.

BY

ISAIAH W. N. KEYS,

CURATOR OF BOTANY IN THE PLYMOUTH INSTITUTION AND DEVON AND CORNWALL
NATURAL HISTORY SOCIETY.

PART IV.

CAMPANULACEÆ—SCROPHULARIACEÆ.

IN presenting the Fourth Part of his "Flora of Devon and Cornwall," the Author has to thank Mr. Thomas Q. Couch for a copy of his "Flora of Polperro;" Mr. E. M. Holmes, of Plymouth, for a list of plants collected by him in Devon and Cornwall; Mr. R. Frean of Plymouth for a list of plants noticed by him during a stroll in Cornwall; Mr. H. T. Mennell, for a list of the plants observed by him in the neighbourhood of Newquay, during a brief sojourn there this summer, (and which he kindly prepared at the request of Mr. F. P. Balkwill); and Mr. T. Waghorn, for the names of a few plants which during a day or two spent at Padstow he saw in that locality. All these lists have been of service. Unfortunately some of them did not reach the Author until the sheets had nearly all passed through the press, otherwise they would have contributed many additional Cornish habitats.

Suggestions, corrections, and information are invited, and will be gratefully received.

Bedford Street Plymouth,
Oct. 4th, 1869.

ABBREVIATIONS.

TITLES OF BOOKS.

| | | | |
|----------------------|--|-------------------------|---|
| <i>Bab. Man.</i> | .. Babington's Manual of British Botany. | <i>J.B.T.</i> | .. Jones's Botanical Tour. |
| <i>B.B.F.</i> | .. Bentham's British Flora. | <i>J.B.T. Ap.</i> | .. Appendix to J. B. T. |
| <i>B.G.</i> | .. Botanist's Guide. | <i>M.H.D.</i> | } Murray's Handbook of Devon and Cornwall. |
| <i>Cyb. Brit.</i> | .. Watson's Cybele Britannica. | <i>M.H.C.</i> | |
| <i>C.B.S.</i> | .. Supplement to C. B., 1860. | <i>N.B.G.</i> | .. Watson's New Botanist's Guide. |
| <i>E.B.</i> | .. English Botany. | <i>N.D.H.</i> | .. The North Devon Handbook. (Banfield, Ilfracombe.) |
| <i>E.B.S.</i> | .. Supplement to E. B. | <i>P. & D. Fl.</i> | .. Banks's Plymouth and Devonport Flora. |
| <i>Fl. Dev.</i> | .. Flora Devonensis, 1829. | <i>Per. Dart.</i> | .. Moore's Perambulation of Dartmoor. |
| <i>Fl. Plym.</i> | .. A List of Plants indigenous to Plymouth & its Neighbourhood in "S. Devon Literary Chronicle," by I. W. N. Keys. | <i>Phytol.</i> | .. The Phytologist. |
| <i>Fl. Sid.</i> | .. Flora Sidostiensis. (Hoyte, Sidmouth.) | <i>Polytech. 1856.</i> | .. Report of the Royal Cornwall Polytechnic Society of that year. |
| <i>Fl. Tot.</i> | .. Hannaford's Flora Tottoniensis. (Hannaford, Totnes.) | <i>Rav.</i> | .. Ravenshaw's Flowering Plants and Ferns of Devonshire. |
| <i>Fl. Tot. Sup.</i> | .. Supplement to Fl. Tot. | <i>Tor. Fl.</i> | .. Stewart's Torquay Flora. |
| <i>H.B.F.</i> | .. Hooker's British Flora. | <i>W.D. & C. F.</i> | .. Jacob's West Devon and Cornwall Flora, 1836-7. |
| <i>Journ. Bot.</i> | Seeman's Journal of Botany. | | |

NAMES OF PERSONS.

| | | | |
|-----------------|-----------------------------|-----------------|------------------------------|
| <i>Atw.</i> | .. Miss M. M. Atwood. | <i>Johns</i> | .. Rev. C. A. Johns. |
| <i>Bail.</i> | .. Mr. Charles Bailey. | <i>Jord.</i> | .. Mr. R. C. R. Jordan. |
| <i>Balkw.</i> | .. Mr. F. P. Balkwill. | <i>Jul.</i> | .. Rev. R. A. Julian. |
| <i>Bank.</i> | .. Mr. J. Banker. | <i>Lees</i> | .. Mr. E. Lees. |
| <i>Bartl.</i> | .. Mr. George Bartlett. | <i>L., Miss</i> | .. Miss K. Lothmann. |
| <i>Brent</i> | .. Mr. Frederick Brent. | <i>Maw</i> | .. Mr. George Maw. |
| <i>Briggs</i> | .. Mr. T. R. Archer Briggs. | <i>Menn.</i> | .. Mr. H. T. Mennell. |
| <i>Clark</i> | .. Mr. Thomas Clark. | <i>Parf.</i> | .. Mr. E. Parfitt. |
| <i>Couch</i> | .. Mr. Thomas Q. Couch. | <i>Park.</i> | .. Mr. C. E. Parker. |
| <i>Cress.</i> | .. Rev. R. Cresswell. | <i>Pasc.</i> | .. Mr. F. P. Pascoe. |
| <i>Curn.</i> | .. Mr. W. Curnow. | <i>Read.</i> | .. Mr. J. J. Reading. |
| <i>Flow.</i> | .. Mr. T. B. Flower. | <i>Scriv.</i> | .. Rev. C. Scriven. |
| <i>Frean</i> | .. Mr. R. Frean | <i>Stew.</i> | .. Mr. R. Stewart. |
| <i>Gibs.</i> | .. Mr. G. S. Gibson. | <i>Towns.</i> | .. Mr. F. Townsend. |
| <i>Giss.</i> | .. Mr. G. W. Gissing. | <i>Trim.</i> | .. Dr. Trimen. |
| <i>Gould.</i> | .. Mr. F. H. Goulding. | <i>Ward</i> | .. Mr. N. Ward. |
| <i>H., Miss</i> | .. Miss Harrison. | <i>W., Miss</i> | .. Miss Elizabeth A. Warren. |
| <i>Holmes</i> | .. Mr. E. M. Holmes. | <i>Warr.</i> | } Rev. G. B. Warren. |
| <i>Hore</i> | .. Rev. W. S. Hore. | <i>War.</i> | |
| <i>Jac.</i> | .. Rev. J. Jacob, LL.D. | <i>Wats.</i> | .. Mr. H. C. Watson. |

OTHER ABBREVIATIONS, SIGNS, ETC.

| | |
|-------------------|---|
| o | .. Implies that the authority for the locality requires corroboration. |
| <i>H.S. Herb.</i> | .. After the name of a place shows that a specimen from that locality is in the herbarium of the Royal Horticultural Society of Cornwall. |
| ! | .. After the name of a place shows that a specimen from that locality is in the herbarium of the Plymouth Institution and Devon and Cornwall Natural History Society. |

Native Country.

| | |
|-----|--|
| + | .. Possibly introduced, but now having the appearance of being a true native. |
| ‡ | .. Probably introduced, but admitting of some slight doubt on the subject. |
| * | .. Certainly naturalized. |
| [] | .. Although naturalized, having very slender claims to be considered an aboriginal native, &c. <i>Vide</i> Bab. Man. |

FLORA

OF

DEVON AND CORNWALL.

(Continued.)

I. FLOWERING PLANTS.

Class I. DICOTYLEDONES or EXOGENS.

Division III. COROLLIFLORÆ.

Order XLVI. CAMPANULACEÆ.

Lobelia Linn.

L. urens (L.)—*E.B.* 953.—**D.** Shute-common, between Axminster and Honiton! : *Hore* in *Phytol.* 1842, p. 160, and *Rev. J. Jervis* in *Fl. Dev.* One specimen gathered in 1852 on the Beacon, or "East-hill," near Sidmouth : *Atw.* ib. 1853, p. 1097. Seaton : *Stew.* in *Rav.* *Acrid Lobelia.*

I am authorised to strike out the Woodbury habitat given in Ravenshaw's book : it is indeed questionable whether any of the others mentioned, except the heath near Axminster, are trustworthy ; and from that locality, in consequence of enclosures, the plant is fast disappearing, if not quite gone. It was still to be seen in that station in 1851 (*Cyb. Brit.* iii. 466). Mr. Watson says of it, in *Cyb. Brit.* (vol. ii. p. 144), "peculiar to a single locality in the county of Devon." Let us hope that we may not have to expunge it from our Flora. It is mentioned in *M.H.D.* (1865) as "growing" on Kilmington-hill [Axminster], but whether any specimens had been collected at that date is not stated.

Jasione Linn. Sheep's Scabious.

J. montana (L.)—*E.B.* 882.—Dry places.—**D.** Common on the coast and on the moors. Plymouth; Staddon-heights, near Plymouth; Bolt-head; Tavistock. Ivybridge: *Miss L.* Teignmouth: *Jord.* Meadfoot-cliffs, Warberry-hill, &c., Torquay: *Tor. Fl.* Ilfracombe: *Rav.* Bishopslist, abundant: *Parf.* — **C.** Whitsand bay; between Penzance and Marazion; Looe. Falmouth, “abundant:” *Polytech.* 1856. Lizard: *Mr. Burnard.* Polperro: *Couch.*

Campanula Linn. Bell-flower.

[*C. latifolia* (L.) is stated in Turner and Dillwyn's Guide to be very frequent in Cornwall, but no botanist of the present time appears to find it in that county.—*Cyb. Brit.* ii. 138.]

C. Trachelium (L.)—*E.B.* 12.—Hedges and thickets chiefly in the South (*Bab. Man.*)—**D.** Watersmeet; Honiton-hill: *Rav.* Brendon-wood, Lynmouth: *Clark* in *Phytol.* 1852, p. 742. *Nettle-leaved Bell-flower.*

C. rotundifolia (L.)—*E.B.* 866.—Dry and hilly places.—**D.** Great Mis-tor (Dartmoor): *Brent* (1866). On a hedge-bank between Lopwell and Beeralstone: *Briggs.* Frequent about Ilfracombe and Lynton; Dartmoor and Exmoor: *Rav.* Woodhouse-lane, and in a field adjoining the Colehouse plantations, in the parish of Ilsington: *Fl. Dev.* Berry-head: *Tor. Fl.* Near Torquay, “rare:” *Jord.* in *Phytol.* 1843, p. 827.—**C.** Kynance cove! (Aug., 1864). The late Miss Warren communicated a specimen from this locality to H. S. Herb. In two spots on a bank near Kingsand village, Maker: *Briggs.* One plant found by Mr. W. P. Cocks near Nangitha farm: *Polytech.* 1856. *Hairbell.*

Specularia Heist.

S. hybrida (A. DC.)—*Campanula* Sm., *E.B.* 375.—Corn-fields.—**D.** Staddon-heights!; Saltram. St. Mary-church: *Stew.* in *Rav.*

Meadfoot and Warberry hill, Torquay: *Park*. ib. Near Teignmouth: *Jord*. Dunsford bridge: *Park*.—**C**. Near Torpoint: *W. D. & C. F.* Trefusis field, and in a corn-field near Budock church: *Polytech*. 1856. Near Lizzen: *Mr. E. G. Hocken*. *Corn Bell-flower*.

This species is of very local occurrence. Only one habitat in Cornwall was known to Mr. Watson at the date of the publication of *Cyl. Brit.* ii. (1849), and that was communicated by the late Miss Warren.

Wahlenbergia *Schrad.*

W. hederacea (Reich.)—*Campanula* Sm., *E.B.* 73.—Damp peaty places in the South and West (*Bab. Man.*) Sometimes on heathy and rather dry ground. — **D**. By no means infrequent in the neighbourhood of Plymouth; *e.g.* on the banks of the Plym, near Leigham; Bickleigh vale; Shaugh!; Meavy; banks of the Cad; Roborough down; and near Wheal Sidney mine, Plympton; Dartmeet; Tavistock; near Chagford; near Lydford. Fancy wood, Egg-buckland: *W. D. & C. F.* Brent and New-house, near Ivy-bridge: *Miss L.* Haldon; Bovey Heathfield; Widdicombe-in-the-moor; Manaton; North Bovey; Ilsington; Gidleigh: *Fl. Dev.* Forde bog, near Newton: *Tor. Fl.* Near Kennock kiln, banks of the Teign: *J. B. T.* Near Holne-chase: *Ward* in *Phytol.* 1842, p. 21. Dartmoor, Spitchweek, &c.: *Jord*. ib. 1843, p. 827. Lynmouth: *Clark* ib. 1852, p. 742. In the neighbourhood of Teignmouth: *Jord*. MS. Valley of West Lyn: *Rav.* Hamilton-range, Dartmoor: *Park*. ib. White-well, Little Haldon: *Rev. R. Cresswell* ib. Frequent about Martinhoe: *Scriv.* ib. Peak-hill: *Fl. Sid.* — **C**. Chyangall moor: *Gibs.* in *Phytol.* 1846, p. 673. College, Budock bottoms, &c., plentiful: *Polytech.* 1856. St. Paul, and generally distributed throughout the South-west of the county: *Bail.* Between Fowey and St. Austle; Carn-breh, near Camborne; near Newbridge, on the river Tamar: *J.B.T.* On the banks of Polperro brook, near Old Walls: *Couch.* *Ivy-leaved Bell-flower*.

Order XLVII. ERICACEÆ.

[*Andromeda polifolia* (L.) is mentioned in *Per. Dart.* as occurring on Dartmoor. This being the only authority I can find, I am led to decline giving this little shrub a place in our Flora. Somerset is its South limit, according to Watson (*Cyb. Brit.* ii. 153).]

Calluna Salisb. Ling.

C. vulgaris (Salisb.)—*E.B.* 1013.—Dry heaths. — **D.** Common. — **C.** Common.

Erica Linn. Heath.

E. Tetralix (L.)—*E.B.* 1014.—Boggy heaths, and by the margins of streams on comparatively dry heaths.—**D.** Frequent. Roborough down; near Tavistock; Berry-head; near Bovey Tracey. Dartmoor!: *Balkw.* Near Ilfracombe: *N.D.H.* Near Teignmouth: *Jord.* MS. Milber down; Forde bog, near Newton; Bovey heath, &c.: *Tor. Fl.* Ivybridge, "common:" *Miss L.*—**C.** Budock bottoms; Menehay marsh, &c.: *Polytech.* 1856. St. Kevern and Coverack marsh: *Balkw.* Scilly islands: *Towns.* in *Journ. Bot.* ii. 113. *Cross-leaved Heath.*

This pretty heath seems to be less frequent in Cornwall than in Devon.

— *β. Watsoni.*—**C.** Truro. (See *Cyb. Brit.* ii. 147.)

A white-flowered variety of *E. Tetralix* was found by the Rev. W. S. Hore on Kea downs!, Truro, Cornwall, Sept. 12, 1836. Also on Treleaver moors, "rare:" *Polytech.* 1856.—A variety "with divided anthers, very long style, and cleft corolla," has been found on Haldon hill, Devon, by Mr. G. W. Gissing: *Rav.*

E. cinerea (L.)—*E.B.* 1015.—Dry heaths.—**D.** Common. Roborough down!, near Plymouth; near Ivybridge; Shaugh; near Tavistock; near Fingal bridge, on the r. Teign. In the neighbourhood of Teignmouth: *Jord.* Warberry hill; Babbicombe; Mary-church; Milber down: *Tor. Fl.* Berry-head: *Trim.* About Chudleigh: *J.B.T. Ap.* Dartmoor: *J.B.T.* Neighbourhood of Ilfracombe: *N.D.H.*—**C.** Mount Edgcumbe, near Plymouth; near

Calstock; Penlee point; near Cawsand; Land's-end; Kynance cove. Polperro: *Couch*. Common about Falmouth: *Polytech*. 1856. *Fine-leaved Heath*. *Scotch Heath*.

A variety (*flor. alb.*) occurs in Devon, near Bull-point, and at Trentishoe, N.D.; also on Milber-down and Haldon. I think I have seen it on Roborough down. It is also reported as growing in Budock bottoms, Cornwall, but "rare."

E. ciliaris (L.)—*E.B.S.* 2618.—**D.** Does not occur here.—**C.** Near Truro: *Hore* in *Phytol.* 1842, p. 162. Near Bodmin!: *id.* Marshy heath, three miles north of Truro: *Balkw.* (1866). Near Perran, "plentiful:" *Polytech*. 1856. Carclew: *Bab. Man.* Collected in enclosed land on Edgumbe downs (the last-mentioned station) by Mr. Charles Bailey in 1866. Near South Chiverton mine: *Frean* (1868). *Ciliated Heath*.

This species has also been found near Clifden, Galway, Ireland. In England it is peculiar to the counties of Cornwall and Dorset. It was first introduced into the British Floras about the year 1829, when it was sent to Sir W. J. Hooker instead of *E. vagans* by the late Rev. J. Tozer. Vide *Cyb. Brit.* ii. 147, where it is also stated that, although the localities in Cornwall are variously described, they are all of them about Penryn, Truro, and St. Agnes.

E. vagans (L.)—*E.B.* 3.—**C.** "Western parts of Cornwall" (*Bab. Man.*) Between Helstone and the Lizard, plentiful (1864). "Common at the Lizard:" *Hore* in *Phytol.* At the Lizard, "on serpentine only:" *Bail.* Goonhilly down!: *Jac.* Kennock cove; Cowsor downs: *Balkw.* (1867). Near Constantine: *id.* (1866). "Found by Miss Warren in the parish of Mylor, and also by Mr. Skinner in the parish of Mawnan, rare:" *Polytech*. 1856. On Goonhilly downs, "in great abundance;" near Mullyan; and at Zenar on the north coast,— "very sparingly at the latter place:" *J.B.T.* *Cornish Heath*.

Mr. H. C. Watson says of this species (*Cyb. Brit.* ii. 150), that it is "only known with certainty in a few localities in Cornwall, chiefly on the Lizard.

Has also been reported to occur in Devon (Miss Webster, in *B.G.*); Gloucester, Worcester, Glamorgan (*B.G.*), Notts; ¹ and, under name of *E. multiflora*, also in Derbyshire. The counties of Devon and Glamorgan are not improbable in themselves, although confirmation may be requisite." It is marked "o" for Devon in *C.B.S.*

In *N.B.G.* it is stated to grow on a heath between Axminster and Lyme. I learn this from *Rav.* In the last-mentioned work Mount Edgcumbe is also given as a habitat, on the authority of *Fl. Plym.*; but this station should not be retained, the specimens collected there having doubtless escaped from cultivation.

In the notice of the Lizard district in *M.H.C.*, it is stated, after referring to the presence there of this most beautiful of the English heaths, that "the only place in which it is known to grow elsewhere is a small district on the west coast of Portugal." Mr. Bentham, however, says that it ranges all round the Mediterranean from Spain to Greece, Turkey and Egypt, and ascends along the Atlantic to Cornwall and the south coast of Ireland (*B.B.F.* p. 298).

[*Azalea procumbens* (L.), a plant growing on the "summits of the Highland mountains" (*Bab. Man.*), but said in *Per. Dart.* to occur on Dartmoor, and admitted into Mr. Ravenshaw's book on this authority, is unhesitatingly omitted from the present list.]

Vaccinium Linn.

V. Myrtillus (L.)—*E.B.* 456. — Stony woods and heaths. — **D.** Common. Bickleigh vale!, near Plymouth; Dewerstone on the r. Cad; Dartmoor; near Tavistock; near Fingal bridge, on the Teign. Ivybridge: *Miss L.* About Teignmouth: *Jord.* Brendon wood, Lynmouth: *Clark* in *Phytol.* 1852, p. 742. Plantations at Lindridge, near Bishopsteignton; Holne-chase; moor near Chagford: *Tor. Fl.* Neighbourhood of Chudleigh: *J.B.T. Ap.* Chambercombe: *N.D.H.* Ilfracombe; Exmoor: *Rav.* — **C.** Harewood, near Calstock; near Liskeard. Between Polbathic and Hessenford: *Balkw.* Abundant in woods near Polperro: *Couch.* College wood, Trigoniggy marsh, &c., plentiful: *Polytech.* 1856. *Whortleberry.* *Bilberry.*

¹ In *Mag. Nat. His.*, v., 549, Mr. Henry Creed says, in a letter to the editor, that his brother found *E. vagans* (with white flowers) growing on Sherwood Forest, Notts, in 1825.

[*V. Oxycoccus* (L.), said to grow in woods at Watermouth, near Ilfracombe, is not recognised as Devonian in *Cyb. Brit.* Its S. limit is there stated to be in Somerset.]

[*Pyrola rotundifolia* (L.), an inhabitant of damp bushy places and reedy marshes, located about Bideford in *N.B.G.*, possesses slender claims to a place in the Flora of Devon. In *Cyb. Brit.* ii. 159 its occurrence there is considered uncertain, and in *C.B.S.* it is stigmatised with an "o."]

[In *Cyb. Brit.* ii. 160, Mr. Watson distrusts the occurrence of *Pyrola minor* (L.) in Devon. It is, however, recorded in *Rav.* as found at Ivybridge by Rev. H. A. Box in 1858. Miss Lothmann, who for several years assiduously botanized in that neighbourhood, has not included it in her list.]

Order XLVIII. AQUIFOLIACEÆ.

Ilex Linn. Holly.

I. Aquifolium (L.)—*E.B.* 496.—Woods and hedges. — **D** Too common to require the mention of localities. — **C**. Equally common.

Order XLIX. JASMINACEÆ.

Ligustrum Linn. Privet.

L. vulgare (L.)—*E.B.* 764.—Thickets in the South of England (*Bab. Man.*)—**D**. Frequent in hedges and on the cliffs of the coast, particularly in the South. Plymouth!; Saltram woods; Staddon heights; Newton Ferrers. Teignmouth cliffs: *Jord.* in *Phytol.* 1843, p. 827. Anstice cove: *Lees* ib. 1851, p. 241. Saunton sands; cliffs at Berry Narbor: *Rav.* Axminster, on the cliffs: *Parf.* Park hill: *Tor. Fl.*—**C**. Between Torpoint and St. Johns; between Cremill and Maker church; near Cawsand; near St. Germans; Looe. Common in hedges in the neighbourhood of Falmouth: *Polytech.* 1856. Quite common about Truro; between Penzance and St. Buryan: *Briggs*.

"The Privet is so frequently planted for hedges, or for ornament in shrubberies, that its natural limit in Britain can now scarcely be traced with certainty" (*Cyb. Brit.* ii. 165). There can be no doubt, I think, of its true nativity in our district, especially on the cliffs.

Fraxinus Linn. Ash.

F. excelsior (L.)—*E.B.* 1692.—Woods and hedges.—**D.** Common. It is needless to cite localities.—**C.** Also common in this county.

—**β.** *F. heterophyllus* (Vahl).—*E.B.* 1476.—**D.** Salcombe : *Fl. Sid.* Probably not truly wild in this situation.

Order L. APOCYNACEÆ.

Vinca Linn. Periwinkle.

† *V. minor* (L.)—*E.B.* 917.—Woods and thickets, sometimes in hedges.—**D.** Not uncommon, but in many instances doubtfully wild. In the neighbourhood of Plymouth!, it will be found between Bold Venture and Weston mills, at Widey and Manadon, Saltram woods, Efford, near Colebrook; between Yealmpton and Ivybridge, near the Plymouth road; between Bickleigh railway station and Shaugh bridge. Near Teignmouth: *Jord.* in *Phytol.* 1843, p. 827. Tiverton; Exeter; Exmouth; Edginswell: *Rav.* In the road between Crediton and Tap-house; Ilsington; Lympstone; Shillingford, &c.: *Fl. Dev.* Cockington; Coffin's-well; Blagdon (Mr. Earle): *Tor. Fl.* Hedges about Chudleigh, rare: *J.B.T.Ap.* Ivybridge, common: *Miss L.* Bishopstawton: *N.D.H.*—**C.** Linkinhorne: *W.D. & C.F.* "Found by Mr. Charles Fox in a clover field near Trebah; rare:" *Polytech.* 1856. Cardynham: *Mrs. F. Grylls* (H.S. Herb.) Longcombe; Old Walls;—"in both cases far from any house or garden:" *Couch.* *Lesser Periwinkle.*

— var. *fl. alb.* Bottom of Bunker's hill, near Totnes; Compton, near Plymouth (Rev. J. S. Tozer): *Fl. Dev.*

"Apparently quite wild [the typical plant] in a copse, and on an adjoining bank between Dunstone and Newton Ferrers; perhaps also indigenous near Plympton Maurice, and in Saltram woods. Not rare in suspicious

situations in the neighbourhood of villages or old farm-houses. Compton, given as a station for the white-flowered variety in *Fl. Dev.*, is a very unsatisfactory one."—*Briggs MS.*

Whilst, for my own part, I should hesitate to pronounce that this species is truly natural to all the localities about Plymouth which have been cited, yet in some of them I believe it is so. I have met with it only under suspicious circumstances in Cornwall. The stations recorded must be taken for what they are worth. Mr. Watson limits its southern range to Devon (see *Cyb. Brit.* ii. 166, where he also expresses doubts as to its aboriginal nativity in Great Britain).

Mr. Bentham says (*B.B.F.* 312) "it is probably with us an introduced, not a truly indigenous plant."

* *V. major* (L.)—*E.B.* 514.—Hedges and thickets, naturalized (*Bab. Man.*)—**D.** Saltram, near Plymouth. Orchard, Compton; hedgebank, Laira: *Holmes*. About Ivybridge, rare: *Miss L. Braunton* burrows, "but not wild:" *Maw* in *Phytol.* 1853, p. 788. Near Mamhead parsonage, in a hedge; near Ide (Mr. Jacob): *Fl. Dev.* Near Teignmouth: *Jord.* "Met with about Torquay occasionally, but probably a truant from shrubberies:" *Tor. Fl.*—**C.** Trevol, near Torpoint; between Millbrook and Cremyll (1866). Old garden ground, Pendennis, plentiful: *Polytech.* 1856. About Polperro, "doubtfully wild:" *Couch. Greater Periwinkle.*

Order LI. GENTIANACEÆ.

Chlora Linn. Yellow-wort.

C. perfoliata (L.)—*E.B.* 60.—Damp chalky places.—**D.** Branscombe cliffs, and near Starcross (Rev. J. Jervis); Braunton burrows (Dr. Wavell): *Fl. Dev.* Near Rillage point: *N.D.H.* Watermouth and Hillsborough, near Ilfracombe: *Rav.* Axminster: *Parf.*—**C.** Between Stratton and Launceston: *Balkw.* (1862). *Yellow Centaury.*

This species was not known to Mr. H. C. Watson as occurring farther S. than Devon (*Cyb. Brit.* ii. 176). Its addition to the Flora of Cornwall by Mr. F. P. Balkwill is therefore interesting.

Erythræa Renealm. Centaury.

E. pulchella (Fries).—*E.B.* 458.—Sandy ground.—**D.** Bovisand, near Plymouth: *Briggs*. Buckham's marsh, Dartington: *Fl. Tot.* Wet clayey fields at Ilsington; Bovey Heathfield; Dawlish; Mount Pleasant, near Exmouth; Babbicombe: *Fl. Dev.* Braunton burrows: *Scriv.* in *Rav.* Hartland: *Rav.* Chapel-hill; Petit-tor: *Tor. Fl.* Marychurch, near Torquay: *J.B.T.*—**C.** Field between Torpoint and St. John's: *Briggs* in *Phytol.* n.s. v. 370. Conner down, near Penzance: *Curn.* in *Phytol.* 1844, p. 1143. Pastures: *Miss W.* (H.S. Herb.) In the neighbourhood of Falmouth, rare (*W. P. Cocks*): *Polytech.* 1856. Bude!: *Miss Harrison* (1850). Mount's-bay: *Bail.* (1866). On the cliffs near Crafthole: *J.B.T.*

I am inclined to agree with Mr. Bentham that this reputed species is only one of the many forms assumed by *E. Centaurium*. I have examined specimens of it over and over again without being satisfied with its claim to rank as a species. I am supported also in this view by Mr. H. C. Watson, who says that, although "this looks more like a distinct species than either *E. littoralis* or *E. latifolia*," he has seen occasional examples of *E. Centaurium* approximating so closely to those of *E. pulchella*, as to interfere much with any settled conviction of their specific distinctness."

E. Centaurium (Pers.)—*E.B.* 417.—Dry pastures and frequently roadsides. — **D.** Common. Under the Hoe and Citadel, Plymouth; Saltram; between Colebrook and Shaugh. Near Devonport!: *Hore*. About Teignmouth: *Jord.* Daddy-hole plain; Babbicombe, &c.: *Tor. Fl.* About Chudleigh: *J.B.T. Ap.* Ivy-bridge, common: *Miss L.* Torrs, old Barnstaple road: *N.D.H.*—**C.** Between Calstock and Gunnislake; near St. Germans; near Millbrook; near Lancellos. Polperro, common: *Couch*. Plentiful about Falmouth: *Polytech.* 1856. Porth Curnnow (a stunted broad-leaved form, "not *E. latifolia* Sm."): *Bail.* Lizard: *Mr. Burnard.* *Common Centaury.*

E. latifolia (Sm.)—*E.B.S.* 2719.—Sands near the sea. — **D.** Babbicombe downs: *Park.* in *Rav.* Clovelly: *N.D.H.* On the

cliffs: *Hore* in *Phytol.* 1842, p. 162. — **C.** On the cliffs: *id. et ib.* Scilly islands, "common:" *Towns.* in *Journ. Bot.* ii. 113. South-western part of the county: *Balkw.*

This also is included by Mr. Bentham under *E. Centaurium*.

E. littoralis (Fries).—*E.B.* 2305.—Sandy sea-shores.—**D.** Banks of the Teign: *Hore* in *Phytol.* 1842, p. 162; also *Flow.* Branton burrows: *Maw* in *Phytol.* 1853, p. 788. Torquay: *Parf.* in *Rav.*—**C.** Scilly islands: *Towns.* in *Journ. Bot.* ii. 113. Found by Mr. W. P. Cocks on Swanpool heath, rare: *Polytech.* 1856, under the name of *E. linariifolia*. Mount's-bay: *Bail.*

Included by Mr. Bentham under *E. Centaurium*, and Mr. Watson inclines to the belief that it is not a true species.

Cicendia *Adans.*

C. filiformis (Reich).—*Exacum* Sm., *E.B.* 235. *Microcala* Griseb.—Damp sandy places. — **D.** Mentioned by Mr. Stackhouse as frequent in bogs in Devon: *Fl. Dev.* I have never met with it there myself, nor have I heard of any one who has. Rev. W. S. Hore doubts its existence in Devon: *Phytol.* 1842, p. 162. It is marked doubtfully for this county in *Cyb. Brit.* — **C.** Chyanhall moor, near Penzance: *Curn.* in *Phytol.* 1844, p. 1143; *Gibs.* ib. 1846, p. 677. "There are a few habitats for it in Cornwall:" *Hore* ib. 1842, p. 162. Turfy bogs, near Truro: *id.* in *W.D. & C.F.* Goonhilly down: *Johns* ib. Goohavern downs: *Miss Warren* (H. S. Herb.) "In a ditch near the road leading to Bodmin, four miles from St. Michael's,—not uncommon in Cornwall;" Gorse-moor and Roche: *J.B.T.* *Least Gentianella.*

Gentiana *Linn.* Gentian.

G. Amarella (L.) — *E.B.* 236. — Dry calcareous fields. — **D.** Northam burrows (Dr. Wavell): *Fl. Dev.* Dunscombe: *Rav.* Branton burrows: *Maw* in *Phytol.* 1853, p. 788. Babbicombe

down (in Herb. of Miss A. Griffiths, Torquay Museum): *Parf.* — **C.** Near Truro: *Johns* (H. S. Herb.) *Autumnal Gentian*.

G. campestris (L.) — *E.B.* 237. — Dry limestone hills. — **D.** Roborough down (1861). Babbicombe cliffs: *Jord.* in *Phytol.* 1843, p. 827. Trentishoe (in Herb. Miss A. Griffiths, Torquay Museum): *Parf.* Neighbourhood of Teignmouth: *Jord.* Watcombe: *Tor. Fl.* Near Barnstaple: *N.D.H.* — **C.!** One plant found by Mr. Lovell Squire in Budock bottoms: *Polytech.* 1856. *Field Gentian*.

Menyanthes Linn. Buckbean.

M. trifoliata (L.) — *E.B.* 495. — Boggy places. — **D.** Frequent. Dartmoor!; near Ivybridge. Chelson meadow, near Plymouth: *Capt. M'Adam*. Ven Ottery: *Fl. Sid.* Forde bog and Bovey Heathfield: *Park.* in *Rav.* Near Ide: *Parf.* *ib.* Shaugh moor: *Holmes*. Marshy meadow at Edginswell: *Tor. Fl.* In the vicinity of Chudleigh: *J.B.T.Ap.* Peaty bogs [about Barnstaple]: *N.D.H.* — **C.** Marsh near Gulval: *Gibs.* in *Phytol.* 1846, p. 678. Near Falmouth: *D. Peirson* *ib.* 1842, p. 30. Gwyllyn-vase, Trigoniggy, and Nangitha marshes, not common: *Polytech.* 1856. St. Kevern; marsh, Rosenithon: *Balkw.* Banks of Trelawny and Lerrin rivers: *Couch.* Gunwalloe (1868): *Frean.* Meadow, Sandplace, near Looe: *Holmes*.

Order LII. POLEMONIACEÆ.

Polemonium Linn. Jacob's Ladder.

P. cæruleum (L.) — *E.B.* 14. — Bushy hilly places, rare (*Bab. Man*). — **D.** Laira, near Plymouth, but questionably wild; between Knackersknowle and Tamerton, casual, but apparently wild (1869). — **C.** Near Falmouth, in waste places, "an outcast from gardens:" *Polytech.* 1856.

In *Cyb. Brit.* (ii. 179) no place is given to this species in the peninsular province, Derbyshire being named as its S. limit. In the Supplement, how-

ever, it is introduced for Devon with the unsatisfactory "o." I fear it has slight claims to be considered indigenous in our district.

Order LIII. CONVULVULACEÆ.

Convolvulus Linn. Bindweed.

C. arvensis (L.)—*E.B.* 312.—Fields, hedges, and waysides. — **D.**! Very common. Localities need not be mentioned. — **C.** Equally common here. *Small Bindweed.*

C. sepium (L.)—*E.B.* 313. *Calystegia* R. Br. — Hedges and thickets.—**D.** Frequent. In many places about Plymouth. Near Totnes; Mary's-clist; Bovey Tracey; Ingsdon; North Bovey, &c.: *Fl. Dev.* Teignmouth: *Jord.* Anstice cove; hedges by side of the Paignton road: *Tor. Fl.* Brixham: *Trim.* Vicinity of Chudleigh: *J.B.T. Ap.* Ivybridge, common: *Miss L.* Barnstaple: *N.D.H.*—**C.** Between Cremyll and Maker church; near Calstock. Neighbourhood of Falmouth, not uncommon: *Polytech.* 1856. Neighbourhood of Polperro, common: *Couch.* *Great Bindweed.*

C. Soldanella (L.)—*E.B.* 314. *Calystegia* R. Br. — Sandy sea-shores.—**D.** Frequent. Slapton sands (1859). Dawlish warren: *Jord.* in *Phytol.* 1843, p. 827. Braunton burrows: *Maw* ib. 1853, p. 788. Under Mt. Pleasant, Dawlish: *Holmes.* Paignton: *Fl. Tot.* Teignmouth; Morthoe (Dr. Wavell): *Fl. Dev.* Saunton: *Rav.* Near the garden wall of Torbay house; Goodrington sands: *Tor. Fl.* — **C.** Tregantle and elsewhere in Whitsand bay, near Plymouth; near Marazion (1864). Kennack sands; Mullion cove (1866): *Balkw.* Near Bream-bay, rare (W. P. Cocks): *Polytech.* 1856. *Sea-side Bindweed.*

Cuscuta Linn. Dodder.

C. Epithymum (Murr.) — *E.B.* 55. — Parasitical upon small shrubby plants (*Bab. Man.*). I have seen it growing only on

furze. I remember, however, that the late Mr. Banker once gave me a specimen on Ling (*Calluna vulgaris*).—**D.** Portlemouth, near Salcombe. Ivybridge: *Miss L.* Near Dawlish and Teignmouth; downs round Moreton; Rora and Hightor downs, Ilsington; Wid-decombe-in-the-moor (Rev. A. Neck): *Fl. Dev.* Chudleigh; North Bovey: *J.B.T. Ap.* Warberry hill, Torquay; Hope's-nose: *Stew.* in *Rav.* Woollacombe: *Rav.* Haldon: *Parf.* in *Rav.* Dawlish: *J.B.T.* — **C.** Rame-head; between Tregantle and Sharrow-grot, Whitsand bay!. St. Kevern: *Balkw.* Common on furze by the coast near Polperro: *Couch.* In the vale of Menachan, between Helford ferry and Helstone; between Zennar and Mawgan: *J.B.T.* On furze near Tol Pedn Penwith, &c., Penzance: *Gibs.* in *Phytol.* 1846, p. 679. On furze at Pendennis, very plentiful: *Polytech.* 1856. *Lesser Dodder.*

Order LIV. BORAGINACEÆ.

Cynoglossum Linn. Hound's-tongue.

C. officinale (L.)—*E.B.* 921.—Waste ground. — **D.**! Wembury (1851); near Galmpton on the river Dart (1858); Mudstone bay (1858); Portlemouth, plentiful (1858). Exmouth: *Parf.* Teignmouth: *Jord.* Braunton burrows: *Maw* in *Phytol.* 1853, p. 788. Paignton: *Fl. Tot.* About Chudleigh: *Fl. Dev.* Saunton; Woollacombe: *N.D.H.* Dawlish: *Rav.* Near Stoke Gabriel, by the side of the high road; Kerswell down, in great abundance: *Tor. Fl.* Berry-head; Goodrington sands: *Trim.*—**C.** Sand-hills, Perranzabuloe (1868): *Frean.* Banks of Helford river, "rare:" *Polytech.* 1856.

[*Cynoglossum Omphalodes* (L.), said by Polwhele to have been found among rocks at Teignmouth, was searched for in vain by Mr. Jones in 1820 (see *J.B.T.* p. 5), and so far as I am aware has not been found there since.]

Borago Linn. Borage.

* *B. officinalis* (L.)—*E.B.* 36. On rubbish and waste ground.—**D.** Crabtree, near Plymouth. In Mr. Banks's day (see *P. & D. Fl.*)

it grew at Cremyll-point and in Catdown quarries, as well as at New-bridge [? on the Tamar]. Sidmouth: *Fl. Sid.* Paignton; orchard at Parkhill; about Totnes: *Fl. Tot.* On rubbish about Chudleigh: *J.B.T. Ap.* On the Den, at Teignmouth: *Fl. Dev.* Ilfracombe; Combe-martin: *N.D.H.* Bovey; Chagford: *Stew. in Rav.*—**C.** Looe, in quantity (1866). Near Saltash!: *Jac.* Between Craithole and Looe; near St. Just; Kedgworth: *J.B.T.* In the neighbourhood of Polperro, “common,” but “doubtfully wild:” *Couch.* Coverack cove, near the Lizard (1866): *Balkw.* Field near Bream bay, plentiful: *Polytech.* 1856. Scilly islands (“one specimen”): *Towns. in Journ. Bot.* ii. 113.

***Anchusa* Linn.** Alkanet.

‡ *A. officinalis* (L.)—*E.B.* 662.—Waste ground, rare.—**D.** Absent.—**C.** Penzance: *Bail.* (1866). “Found near Budock church by Mr. W. P. Cocks, rare:” *Polytech.* 1856. “Langreek, Lerrin, not uncommon:” *Couch.*

‡ *A. sempervirens* (L.)—*E.B.* 45.—Waste ground and hedges.—**D.** Although registered by Prof. Babington as rare, it is by no means infrequent about Plymouth, and has in many stations all the semblance of indigenusness; nor is it uncommon throughout the county. Mutley, Efford lane!, Pounds, and Burleigh, all in the immediate vicinity of Plymouth; between Tamerton and Roborough down; Woolwell, Knackersknowle; Egg Buckland churchyard; on the Yealmpton road, about four miles from Plymouth; Cudlip-town, near Tavistock; Tavistock. Ivybridge: *Miss L.* Near Torquay: *Ward in Phytol.* 1842, p. 20. Dawlish, “hardly wild:” *Jord. ib.* 1843, p. 827. Teignmouth: *id.* MS. Northam, N.D.: *Maw in Phytol.* 1853, p. 794. Plentifully about Berry Pomeroy castle: *Flow. in Rav.* Braunton burrows: *Mrs. Hill. ib.* Hedges on both sides of the road between Barnstaple and Bishopstawton:

Wats. ib. ¹ Combe-martin : *Scriv.* ib. Hedges about Sidmouth : *Fl. Sid.* Turnpike-road near Shillingford ; Ilsington ; Mamhead churchyard : *Fl. Dev.* Near St. Thomas, Exeter : *Parf.* Stoke Gabriel, in a hedge by the way to the river ; near Ide church-yard ; Dartmouth, side of the walk leading to the castle : *Tor. Fl.* Moreton ; North Bovey : *J.B.T. Ap.* Dartmouth : *J.B.T.* Eastdown : *N.D.H.*—**C.** Trevol, near Torpoint ; near St. Neots ; Looe. Between Craffthole and Looe ; near Fowey ; near Tregony ; Falmouth ; near Bodmin : *J.B.T.* Near Liskeard ; St. Mawes (1867) : *Balkw.* Hedge near Trevethan-terrace, &c. [? Falmouth], “ rather plentiful : ” *Polytech.* 1856. In an orchard at Langreek, rare : *Couch.* Penzance : *Bail.* (1866).

***Lycopsis* Linn.** Bugloss.

L. arvensis (L.)—*E.B.* 938.—Fields and hedges.—**D.** Near Exminster (1848). Teignmouth : *Jord.* Dartington hill ; about Totnes : *Fl. Tot.* Paignton : *Miss L.* Braunton burrows : *Maw* in *Phytol.* 1853, p. 788. Fields near the parsonage at Moreton ; North Bovey ; about Exeter (Mr. Jacob) : *Fl. Dev.* Saunton ; old Barnstaple road : *N.D.H.*—**C.** Near Marazion ! (1864). “ Found by Mr. W. P. Cocks, rare : ” *Polytech.* 1856. Near Land’s-end : *J.B.T.*

***Symphytum* Linn.** Comfrey.

S. officinale (L.)—*E.B.* 817.—Damp places. — **D.** Frequent. Knackersknowle ; Roborough ; Saltram (1866). Folly island ;

¹ With reference to the nativity of this species in Britain Mr. H. C. Watson remarks (*Cyb. Brit.* ii. 281) that “ opinions are in conflict,” and that “ the weight of authority or of probability is in the adverse scale ; ” adding that, among the several places in which it had been seen by himself, “ only one had the appearance of being a natural habitat, and the limited extent of space occupied by the plants in the place in question (that is, in hedges by the road from Barnstaple to Bishopstawton, Devon) gave rise to a doubt even there.” I cannot resist the belief that the plant is natural in our district. Dr. Bromfield too thought it “ truly wild ” in a situation in which he gathered it, a few miles from Plymouth (*il.*) Mr. Bentham favours my view when he says of it (*B.B.F.* 327) “ probably truly wild only [*quoad* Britain] in south-western England.”

banks of the Dart, below Staverton bridge ; field near Totnes weir : *Fl. Tot.* Formerly at Meadfoot, but now extinct ; Forde, near Newton ; side of a brook between Kingskerswell and Newton ; Exminster : *Tor. Fl.* Vicinity of Chudleigh : *J.B.T. Ap.* Moist meadows up the Yeo valley, N.D. : *Maw* in *Phytol.* 1853, p. 794. Along the Exe, Teign, Bovey, &c. : *Fl. Dev.* Neighbourhood of Teignmouth : *Jord.* — **C.** Nottar bridge (1864). Banks of the Tamar, near the Weir-head ! : *Jac.* Pendennis, and near Boyer's cellars, " outcast from gardens : " *Polytech.* 1856. In the neighbourhood of Polperro, " probably wandered from gardens : " *Couch.*

Mr. Bastian mentions in his " Flora of Falmouth and surrounding Parishes " (*Polytech.* 1856) a white-flowered variety as occurring in old garden ground at St. Anthony.

The purple-flowered variety, *S. patens* Sibth., has been found at Lifton, Devon, by Rev. T. F. Ravenshaw.

S. tuberosum (L.)—*E.B.* 1502.—Damp woods and river banks.—**D.** Absent.—**C.** Old orchards, Glendurgan, " strayed from the gardens : " *Polytech.* 1856.

Echium Linn. Viper's Bugloss.

E. vulgare (L.)—*E.B.* 181.—Dry places.—**D.** Frequent. Cat-down ! and Hoe, Plymouth. I have not noticed it for several years past in the second station mentioned. Near Yealmpton. Teignmouth : *Jord.* Field near Goodrington ; Ugbrook down ; Paignton : *Fl. Tot.* Exmouth : *Parf.* Braunton and Northam burrows : *Maw* in *Phytol.* 1853, p. 788. Warberry hill ; down between Meadfoot and Hope's-nose ; Aller : *Tor. Fl.* Vicinity of Chudleigh : *J.B.T. Ap.* Saunton, where a " flesh-coloured variety is also found : " *N.D.H.*—**C.** Torpoint ! ; near Polbathick. " Sparingly " in the neighbourhood of Falmouth : *Polytech.* 1856. On the coast near Polperro, " rather rare : " *Couch.*

" A very fine and abnormal condition of this plant was found by Mr. Lovell Squire near Golden-bank."—*Polytech.* 1856.

Pulmonaria *Linn.* Lungwort.

P. officinalis (L.)—*E.B.* 118.—Woods and thickets, rare. — **D.** In a shrubbery at Widey!, near Plymouth. Although apparently wild in this station, the Rev. W. S. Hore informs me that he remembers the time when the whole was an ordinary field without any of the plants now found there. Teignmouth : *Jord.* Whether or not natural in this locality I cannot say.

Mr. Watson doubts the true nativity of this plant in Britain (*Cyb. Brit.* ii. 285); and Mr. Bentham says it is "rare in Britain, the only really wild stations appearing to be in Hampshire and the Isle of Wight."

[*Mertensia maritima* (Gray) has been reported as found in Devon and Cornwall, but upon unsafe authority. For the former county, the South-hams are given (*auct.* Mr. Cornish) in the old Botanist's Guide; and for the latter there is Mr. Pascoe's list of Cornish plants furnished to Mr. H. C. Watson, before referred to, wherein it is simply said, "reported to occur in Cornwall." Under these circumstances, it can hardly be included in our list.]

Lithospermum *Linn.* Gromwell.

L. officinale (L.)—*E.B.* 134.—Dry and stony places.—**D.** Not unfrequent. Crabtree, and banks of the Laira, near Plymouth; near the Camel's-head inn, Keyham, Devonport!; near Billacombe, Plymstock. Hedge near Parkhill; lime quarry near Bidwell copse : *Fl. Tot.* Exmouth : *Parf.* Torquay; Ashburton; Chudleigh; Ilsington : *Fl. Dev.* Teignmouth : *Jord.* Marychurch : *Tor. Fl.* Ilsham; Goodrington : *Trim.* Braunton burrows : *Maw* in *Phytol.* 1853, p. 788.—**C.** Between St. Germans and Landrake (1864); between Torpoint and Antony. Mr. Olver's fields, and also rather plentiful in the neighbourhood of Mainporth and Mewdon : *Polytech.* 1856. *Common Gromwell.*

Cornwall is not included in the area ascribed to this species in *Cyb. Brit.*, although Mr. Watson thought he saw it there. According to my own observation, it is not uncommon in the eastern part of the county.

L. purpureo-cæruleum (L.)—*E.B.* 117.—Thickets on a limestone soil, rare (*Bab. Man.*)—**D.** Babbicombe : *Hore.* I have a speci-

men from this locality in my own herbarium. Near Torquay [perhaps the same station]: *Ward* in *Phytol.* 1842, p. 20. Pettitor, near Marychurch, in the rough bushy places under Dungeon-cliff: *Tor. Fl.* Seen here in abundance by Rev. T. F. Ravenshaw in 1856. Also observed on the summit of the same cliff by Dr. Trimen in 1864. Cliffs at Sidmouth: *Fl. Sid.*—**C.** Unreported.

L. arvense (L.)—*E.B.* 123.—Corn-fields and waysides occasionally.—**D.** Hoe, Plymouth (1845). I have not seen it there since. Near Tamerton (1862). Plymstock!: *Hore.* Staverton woods: *Fl. Tot.* Side of the road between Dawlish and Teignmouth (Mr. Jacob); about Chudleigh, frequent: *Fl. Dev.* Teignmouth: *Jord.* Woollacombe; Exminster: *Rav.* Barton: *Tor. Fl.* Fields about Northam, N. D.: *Maw* in *Phytol.* 1853, p. 794. — **C.** Pentillie (H. S. Herb.): *Johus.* *Corn Gromwell.*

This plant, with a foreign species of the same genus, and several others quite strangers to the neighbourhood, were found by Mr. Richard Frean in 1868 in the Drake's-place reservoir, at Plymouth. What accident brought them thither? I fancy they must have come in with foreign grain. The town-mills formerly stood near this site.

Myosotis *Linn.* Scorpion-grass.

M. palustris (With.)—*E.B.* 1973.—Ditches, bogs, and watery places. — **D.**! Common. May be gathered in many spots about Plymouth; but I find Pennycomequick only entered in my notes. Near Plym-bridge; near the Tavistock railway viaduct, Cann quarry; Shaugh; Dartmoor; Tavistock; banks of the Teign. Teignmouth: *Jord.* Forde bog, near Newton: *Tor. Fl.* Ivy-bridge, common: *Miss L.* Witham, &c., N. D.: *Maw* in *Phytol.* 1853, p. 794. Vicinity of Chudleigh: *J.B.T. Ap.*—**C.** Common. I have not made any notes of localities. About Falmouth, plentiful: *Polytech.* 1856. Polperro, common: *Couch.* *Forget-me-not.*

M. repens (Don).—*E.B.S.* 2703.—Boggy and other moist places. — **D.** Manadon wood; Keyham; Staddon heights; Leigham;

Shaugh. Bovisand: *Bank.* Clyst St. Mary; Budleigh Salterton; Forde bog¹: *Rav.*—**C.** Scilly islands: *Towns.* in *Journ. Bot.* ii. 114.

Although I am unfurnished with localities, there can be no doubt that this plant occurs as generally in Cornwall as *M. palustris*, from which it is not usually distinguished.

M. cæspitosa (Schultz).—*E.B.S.* 2661. — Watery places. — **D.** Chelson meadow! and Cann quarry, near Plymouth; Exminster. Teignmouth: *Jord.* Rackenford: *War.* in *Rav.* Torquay: *Park.* ib. Exeter: *Parf.* ib. Lundy island, with white flowers: *Rav.* Cockington: *Trim.*—**C.** Gwyllyn-vase, Mainporth, &c., not common: *Polytech.* 1856.

Forde bog near Newton, given as a station for this species in *Tor. Fl.* requires confirmation, specimens thence in the Torquay Museum being, as Dr. Trimen indicates, *M. palustris*.

Mr. Bentham throws the three last-mentioned forms of *Myosotis* together under the head of *M. palustris*, with these remarks:—"Modern botanists divide it [*M. palustris*] into three: the true *Forget-me-not*, which is often nearly glabrous, with a broad flat corolla, and short broad teeth to the calyx; *M. repens*, which is more hairy, with narrower lobes to the calyx, reaching to about the middle; and *M. cæspitosa*, with a smaller corolla, with the limb often slightly concave; the first is more common in the South, the last in the North, but they all three run so much one into another as not to be distinguishable with certainty even as varieties." However correct this may be as to the two former, I incline to regard *M. cæspitosa* as a good species. I remember that Mr. Briggs and myself some two or three years since (during a ramble in Bickleigh-vale) carefully examined and compared a series of these plants on the spot, and were perfectly satisfied of the distinctness of *M. cæspitosa* from *M. palustris*; but we were not so satisfied with regard to *M. repens*.

M. sylvatica (Ehrh.)—*E.B.S.* 2630. — Shady places, rare. — **D.** Sail in *Fl. Dev.* to be "frequent" in "woods," but no stations

¹ A specimen from this locality, collected July, 1851, is in Mr. C. E. Parker's herbarium in the Museum of the Torquay Natural History Society.—*Trim.*

are given, which is tantalizing. Warmscombe, near Ilfracombe : *N.D.H.*, repeated in *Rav.* Sidmouth : *Fl. Sid.*—**C.** No information.

Mr. Watson recognises this species as Devonian in *Cyb. Brit.* ii. 273 ; but farther on (vol. iii. 485) he says “ the occurrence of this species in the . . . Peninsula . . . is not quite satisfactorily shown ; ” adding that although “ according to *Fl. Dev.* it is frequent in the county of Devon, yet it is omitted from all my local lists for portions of that county, as Plymouth, Torquay, Chudleigh, Bideford, Barnstaple.” No doubt the authors of *Fl. Dev.* committed a *lapsus* here.—Mr. Bentham says it is “ not frequent in Britain, and perhaps limited to Scotland, the North of England and Ireland.”

M. arvensis (Lehm.)—*E.B.S.* 2629. *M. intermedia* Link. — “ A large-flowered (*β. umbrosa*) plant found in shade is often taken for *M. sylvatica* ” (Bab. Man.) In this case may we not question the authenticity of the stations above-cited for the last-named species, and rather think that it is this large-flowered variety which has been found there? — Cultivated land, thickets, and hedges. — **D.** Common. — **C.** Common. — It is found in every hedge in both counties, so that it is needless to cite stations. *Field Scorpion-grass.*

M. collina (Hoffm.)—*E.B.* 2558. *M. hispida* Koch.—Dry banks and old stone hedges. — **D.** Frequent, but not mentioned in *Fl. Dev.* Is met with in several places about Plymouth, *e.g.* near Lipson, Turnchapel, Staddon heights, and on old stone hedges near the sea. Teignmouth : *Jord.* Daddy-hole plain ; Meadfoot cliffs ; Cockington lanes ; Upton ; dry hedge-banks on the side of Paignton road, &c. : *Tor. Fl.* Totnes : *Fl. Tot.* Near Peppercombe, N. D. : *Maw* in *Phytol.* 1853, p. 794. Hele : *N.D.H.* — **C.** Torpoint ; Wear, near Millbrook ; Rame. Whitsand-bay! : *Hore.* Castle-hill ; Gwyllyn-vase, &c., “ not common : ” *Polytech.* 1856. Neighbourhood of Polperro, “ very common : ” *Couch.* Is it really so, or is it confused with *M. arvensis*, which is not included in Mr. Couch's list? *Early Field Scorpion-grass.*

[*M. stricta* Link, *M. arvensis* (R.), introduced in *Bab. Man.* as “probably a native of Britain,” is recorded in *Tor. Fl.* as having been found on Petitor, April, 1859.]

M. versicolor (Reich.) — *E.B.* 480. — Meadows and banks. — **D.** Common about Plymouth!, *e.g.* at Efford, Lipson, Compton, Laira, Staddon heights, Weston mills, and elsewhere; Plymstock; Shaugh. Ivybridge: *Miss L.* Teignmouth: *Jord.* About Torquay and Newton: *Tor. Fl.* — **C.** Cawsand; Penlee-point; Rame; Saltash; between Torpoint and St. Johns. Polperro: *Couch.* Mainporth; Pendennis, &c., plentiful: *Polytech.* 1856. *Yellow and blue Scorpion-grass.*

“Sometimes the whole plant is yellowish and the fl. yellow” (*Bab. Man.*) This variety is not uncommon about Rame and Whitsand bay. I have also met with it on Staddon heights.

Order LV. SOLANACEÆ.

Solanum *Linn.* Nightshade.

S. nigrum (L.) — *E.B.* 556. — Waste ground. — **D.** Powderham castle! (1848). In *P. & D. Fl.* said to grow at the back of Mount Tamar house and in Bovisand bay (both places near Plymouth), but I believe now extinct; at least, I have never collected it in either station, nor have I ever heard of its having been found there by others. Ivybridge, “rare:” *Miss L.* Goodrington and Paignton sands: *Fl. Tot.* End of the beach at Topsham; beach at Dawlish; near the churchyard, Lympstone; Tor Abbey: *Fl. Dev.* Teignmouth: *Jord.* Exeter; estuary of the Taw, below Barnstaple: *Rav.* Braunton and Northam burrows: *Maw. in Phytol.* 1853, p. 788. In the vicinity of Chudleigh: *J.B.T. Ap.* — **C.** Near Marazion (1864). Millbrook [now extinct]: *Johns.* (H.S. Herb.) Bude: *Miss H.* Bar and Helford, rather rare: *Polytech.* 1856. *Black Nightshade.*

S. Dulcamara (L.)—*E.B.* 565.—Woods and hedges.—**D.** Frequent. Common enough about Plymouth!; Crabtree; Bickleigh; Tavistock. Teignmouth: *Jord.* Hedges near Tor Abbey, &c.: *Tor. Fl.* Ivybridge: *Miss L.* — **C.** Between Torpoint and St. Johns; near Trematon castle. Near Liskeard: *Balkw.* Polperro, abundant: *Couch.* Falmouth: *Polytech.* 1856. *Bitter-sweet.*

—— *β. marinum.* *S. lignosum seu Dulcamara marina* Ray 265. —Pebbly sea-beach. — **D.** Braunton burrows: *Rev. T. F. Ravenshaw* in *Phytol.* n s. vi. 356. Teignmouth; Dawlish, &c.: *Rav.*—**C.** It has not been reported from this county.

Atropa *Linn.* Deadly Nightshade. Dwale.

A. Belladonna (L.)—*E.B.* 595.—Waste places, rare.—**D.** Not in *Fl. Dev.* Inserted with the doubtful “o” in *C.B.S.* According to *P. & D. Fl.* it grew, in Mr. Banks’s time, in a quarry at Cremill-point, near Plymouth, the authorities being Mr. Hunt, Rev. Dr. Jacob, and the Rev. Mr. Bree. No trace of it in that locality at the present day. Braunton burrows: *Flow.* in *Rav.* Hedges at Combemartin: *War.* and *Flow.* *ib.* Rev. W. S. Hore records the last-mentioned station in *Phytol.* 1842, p. 162, but says “possibly an escape from a garden.” — **C.** Not known there.

Hyoscyamus *Linn.* Henbane.

H. niger (L.)—*E.B.* 591.—Waste places, preferring a calcareous soil. — **D.** Slapton sands, plentiful (1859); sea-shore near the Bolt-head; Portlemouth, near Salcombe. Dawlish warren: *Jord.* in *Phytol.* 1843, p. 827. Near Maristow, Roborough; Bovisand: *W.D. & C.F.* According to *P. & D. Fl.* it grew at Millbay, Plymouth (*auct.* Rev. J. S. Tozer); but certainly it is not there now. Paignton sands; fields round Ipplepen: *Fl. Tot.* Braunton and Northam burrows: *Maw* in *Phytol.* 1853, p. 788. Chudleigh; Exmouth sands; Halshanger, near Ashburton: *Fl. Dev.* Teign-

mouth : *Jord.* Babbicombe, on the side of the slope at the end of the down nearest to Petit-tor; Goodrington sands : *Tor. Fl.* — **C.** Rame! (but has not shown itself for the past two or three years); Whitsand bay, waste ground near the new forts at Tregantle (1866); near Marazion! (1864). Near Wrinkle (Mr. C. Johns); near Luggar's cave; between Millbrook and Whitsands : *P. & D. Fl.* Tregantle sands : *Frean* (1868). Bar and Helford beaches, rare : *Polytech.* 1856. St. Anthony in Meneage : *Balkw.* (1867). Between Mullion and Gunwalloe : *Briggs.* (Seen in the latter station by Mr. R. Frean in 1868). Mr. Charles Bailey says *in litt.* "not now [1866] found at Penzance,—rooted up by druggists, &c." Chapel-hill, Polperro; Polruan : *Couch.*

***Datura* Linn.** Thorn-apple.

[* *D. Stramonium* (L.)—*E.B.* 1288.—Waste ground, rare. — **D.** Keyham, near Devonport, a solitary specimen (1849). A weed in a neglected garden at Woodside, Plymouth : *Mr. T. Diment.* Near Torquay : *Rav.* Knowle, Sidbury : *Fl. Sid.*—**C.** Helston downs : *Johns* (H. S. Herb.). St. Austle : *Pasc. in Phytol.* 1848, p. 105.]

Order LVI. OROBANCHACEÆ.

***Orobanche* Linn.** Broom-rape.

O. Rapum (Thuill.)—*E.B.* 421. *O. major* (L.) Sm.—Parasitical upon Broom, Furze, and other shrubby leguminous plants. — **D.** Single specimen on Broom in a hedge by the side of the Dartmoor tramroad, near the tunnel, Egg-buckland (1861). Fancy wood, Egg-buckland! : *Hore.* West wood, banks of the Plym : *Jul.* (1853). Near Torquay : *Ward in Phytol.* 1842, p. 20. Paignton : *Fl. Tot.* Teignmouth : *Jord.* Near Lower Southcott, N.D. : *Maw in Phytol.* 1853, p. 793. Road leading to Oxton house, near Kenton; plantations at Mamhead; road between Exeter and Moreton (Rev. W. Hincks); Lustleigh-cleve (Rev. A. Neck); near

Kenford and at Maypole-head (Mr. Jacob); Ugbrooke park (Hon. Mrs. Weld): *Fl. Dev.* Meadfoot cliffs; Anstice cove: *Park. in Rav.* Pin-hill: *Fl. Sid.* Stoke wood: *Parf. in Rav.* Daddy-hole plain, on the descent to the quarry; Babbicombe: *Tor. Fl.* — **C.** In a wood near Looe: *Couch.* King Harry's wood, Philleigh: *Miss W.* (H. S. Herb.). Pennance (W. P. Cocks); near Mawnan church (Lovell Squire): *Polytech.* 1856. Mr. Pascoe is also an authority for the occurrence of this plant in Cornwall (*Cyb. Brit.* iii. 475). *Greater Broom-rape.*

O. rubra (Sm.)—*E.B.* 1786 (bad). Probably *O. Epithymum* DC. —Parasitical upon *Thymus Serpyllum*.—**D.** Included in the list of North Devon plants given in *N.D.H.*, and transferred, but with a mark of doubt (?), to the pages of *Rav.* Perhaps it ought scarcely to be retained as Devonian.—**C.** Lizard!: *Hore in Phytol.* 1842, p. 162. Kennach vale: *Miss Fox* (H. S. Herb.). Kynance and Kennach: *Johns.* Downs near the Lizard: *Balkw.* (1866). "On Thyme roots, Cornwall:" *Bartl.* MS. notes. Mr. G. S. Gibson and Professor C. C. Babington have also recorded the occurrence of this species in Cornwall (*Cyb. Brit.* ii. 230). *Red Broom-rape.*

[*O. caryophyllacea* (Sm.) appears in *Rav.* (auct. *Warr.*) with a dubious prefix (?) as occurring in Devon; but as, according to *Bab. Man.* and *Cyb. Brit.*, its only certainly ascertained habitat is in Kent, I shall omit it. A plant from Berry-head, reported to be this species, on the authority of Mr. Borrer, proved to be *O. Hederæ* (vide *Cyb. Brit.* iii. 475).]

O. elatior (Sutt.)—*E.B.* 568. *O. major* (L.) Fries. —Parasitical upon *Centaurea Scabiosa*, rare. —**D.** Salterton: *Fl. Sid.* Diptford wood: *Fl. Tot. Sup.* I give these habitats as I find them, but suspect their truthfulness. Mr. Watson says that Dorset is its S. limit (*Cyb. Brit.* ii. 227). The distribution of this species in Britain does not appear to have been satisfactorily ascertained.—**C.** Cubert Porth: *Miss W.* (H. S. Herb.). In *C.B.S.* it has the doubtful "o" against it for this county. *Tall Broom-rape.*

[*O. Picridis* (F. W. Schultz). — *E.B.S.* 2956. — Parasitical upon *Picris*. — Mr. E. M. Holmes recently found an *Orobanche* at Langstone cliff, Dawlish, and another near Powderham park, adherent to roots of *Crepis virens*, which were much taller and rather more pubescent at the base of the stem than *O. minor*, and which he thinks may be *O. Picridis*.]

O. Hederæ (Duby). — *O. barbata* *E.B.S.* 2859, not Poir. — Parasitical upon Ivy. — **D.** Berry Pomeroy castle, near Totnes (1859). Near Torquay : *Ward* in *Phytol.* 1842, p. 21. Berry-head : *Bartl.* MS. notes. Daddy-hole, Torquay : *Giss.* in *Rav.* (This station confirmed by Dr. Trimen, in 1864, and by Mr. E. M. Holmes more recently). Anstice cove : *Lees* ib. (Confirmed by Dr. Trimen). Babbicombe cliffs, &c. : *Trim.* Between Teignmouth and Bishopstawton : *Cress.* in *Rav.* Teignmouth : *Jord.* Combemartin : *Briggs* in *Journ. Bot.* i. 377. — **C.** *Pasc.* in *Phytol.* 1847, p. 943 (locality not named). Newquay : *Mr. Mennell* (1869).

O. minor (Sutt.) — *E.B.* 422. — Parasitical chiefly upon *Trifolium pratense*. — **D.** On the sea-cliffs : *Bartl.* MS. notes. One specimen on *Crepis virens* just behind the palings of the embankment of the leat, near Devonport [railway] station : *Holmes* (1869). Between Starcross and Dawlish, near the Warren, close by the station there for *Eufragia viscosa*, one specimen : *id.* (1869). "In abundance four years ago [1865] in a clover field on the right hand side of the road between Starcross and Dawlish : " *id.* Clover field, Shaugh : *Mr. Stewart*, of Plymouth (Oct., 1865, and July, 1866). Pin-hill : *Fl.Sid.* Dartington copse : *Fl.Tot.* Braunton burrows : *Rav.* Exeter, side of the canal, on roots of *Medicago* : *Parf.* ib. Budleigh Salterton : *Stew.* ib. Teignmouth : *Jord.* Ide, near Exeter (Mr. Earle) : *Tor. Fl.* Fields about Alphington and Shillingford (Rev. R. P. Welland); fields at Kenton (Rev. A. Neck) : *Fl. Dev.* — **C.** Whitsand bay : *Johns* (H. S. Herb.). [May not this have been *O. amethystea*?]. Near Trebah, rare (Mr. C. Fox) : *Polytech.* 1856. About the Lizard : *J.B.T.* Lesser Broom-rape.

O. amethystea (Thuill.) *O. Eryngii* Duby. — “Perhaps a form of *O. minor*” (Bab. Man.). “I strongly incline to regard the English plant as simply *O. minor*” (H. C. Watson, *Cyb. Brit.* iii. 475).—Parasitical upon *Daucus gummifer*.—**D.** Plymouth, on cliffs under the Hoe, near the easternmost part of West-hoe quarries (1869). A single specimen was gathered by Mr. Banker in 1850 at a spot at the extreme eastern part of the Hoe, then known as “Tin-side” (from the fact of tin and rubbish being deposited there). Mr. G. Bartlett also quotes the Hoe cliffs as a habitat for this species in his MS. notes on the copy of *Fl. Dev.* belonging to the Plymouth Institution and Devon and Cornwall Natural History Society, before referred to. Torquay: *Hore* in *Phytol.* 1842, p. 162. Ladram bay: *Cress.* in *Rav.* Langstone cliff, Dawlish: *Lees* ib. — **C.** Whitsand bay¹, near Plymouth¹. Kingsand: *Briggs* in *Journ. Bot.* iii. 351. Mawgan Porth: *Mr. Mennell* (1869).

[There is not sufficient authority for inserting *O. ramosa* (L.) in our list. It appears in *Fl. Dev.* with this remark:—“Mentioned by Hudson as growing wild in Devon.”]

Opinions are greatly at variance as to what are and what are not true species of *Orobanchæ*. Mr. Bentham includes under *O. minor* three or four varieties, which are regarded by Professor Babington and others as distinct species. It may not be uninteresting to quote his remarks on the subject as given in connection with his description of that species:—“One of the widest-spread species over Europe and Russian Asia, growing on a great variety of plants. In Britain, not uncommon in southern and central England, and southern Ireland . . . It varies according to station, and the

¹ It was from this locality that the first British specimens of *O. amethystea* were distributed. The habitat was discovered some twenty-five years since by the Rev. W. S. Hore, who directed me to the spot. (The specimen in herb. of Plymouth Institution was collected by Dr. Jacob). The plant is becoming scarce here, or is perhaps merely, as I incline to think, inconstant in its appearance. With regard to the Plymouth habitat, I believe that I have looked for the plant every year since Mr. Banker found it there (which was in 1850), but have not met with it until this year (1869), when it was first seen by Dr. Clay, a gentleman recently come to reside in Plymouth. It is true my search was confined to the immediate locality in which Mr. Banker discovered it, whereas Dr. Clay saw it at the other extremity of the Hoe.

plants it affects. Many of these varieties have been considered as species, amongst which three are commonly admitted into the British Flora:—*O. Picridis*, a tall, very pale-coloured variety, growing on the *Hawkweed* *Picris*; *O. amethystea*, assuming a bluer tint than any of the others, and growing on *Eryngium*” [Babington says on *Daucus gummifer*, and it is on that plant that we find it in Devon and Cornwall]; “*O. Hederæ*, not uncommon on *Ivy* in the south of England and Ireland as on the Continent. It is said to differ from the common form” [*i.e.* of *O. minor*] “in the yellow, not purple colour of the stigma, and other trifling characters, which however do not appear to be at all constant.”

Lathræa Linn. Toothwort.

L. squamaria (L.)—*E.B.* 50. — Woods and thickets, parasitical upon Hazels, &c.—**D.** Wood at the back of Teignmouth: *Parf.* MS. Woods at Chudleigh: *Giss.* in *Rav.* Kingsteignton: *Warr.* ib. In a copse at Lindridge near Kingsteignton, on roots of Laurel and Hazel: *Tor. Fl.* Wiggymouth, near Ilfracombe: *Mr. Ravenshaw.* East Lyn: *Scriv.* in *Rav.*—**C.** Newquay: *Pasc.* in *Phytol.* 1847, p. 944.

Order LVII. SCROPHULARIACEÆ.

Verbascum Linn. Mullein.

V. Thapsus (L.)—*E.B.* 549. *V. Schraderi* Koch.—Waste ground.—**D.** ! Common. It is found in every direction about Plymouth, so that it is unnecessary to specify particular situations. For several years past two or three fine specimens have shot up their straight spikes, densely crowded with flowers, on the garden walls of the “Old-church Twelves,” in Catherine-street. This *en passant*, and to remind us hereafter (now that these walls are being demolished to make room for the projected Guildhall) that “such things were,” and – may I add?—“were most dear to me.” Near Wembury; Plymstock; Revelstoke; near Brixham. Exeter road; Dartington: *Fl. Tot.* Teignmouth: *Jord.* Meadfoot cliffs, &c.: *Tor. Fl.* Ilfracombe, abundant: *Rav.* In the vicinity of Chud-

leigh and Teignbridge : *J.B.T. Ap.*—**C.** Between Millbrook and Tregantle. Helford and St. Anthony, plentiful ; rare about Falmouth : *Polytech.* 1856. Common about Polperro : *Couch.* Scilly islands, rare : *Towns.* in *Journ. Bot.* ii. 114. *High-taper.*

V. Lychnitis (L.)—*E.B.* 58.—Roadsides and waste places. — **D.** About Shillingford (Rev. R. P. Welland) : *Fl. Dev.* Near Brauntton : *Rav. auct.* “ Old N. Devon List.” In a note, Mr. Ravenshaw queries if the true *V. Lychnitis*, which is said to grow only in Kent and Glamorganshire, is found in Devon. There appears to be no recent affirmative authority. According to *Fl. Dev.* it is mentioned by Dr. Wavell as a Devonshire plant in Polwhele’s History of Devon. It may have been so ; but no record of its occurrence here in the present day being extant, it is scarcely wise to consider it as belonging to our district. It is marked with an “ o ” in *C.B.S.* — **C.** “ On clay-slate, near Truro : ” *H.B.F.* No doubt an error. Either the plant has been mistaken, or the record based on introduced examples of it. The “ o ” stands against it in *C.B.S.* *White Mullein.*

[*V. floccosum* W. and N., *V. pulverulentum* Vill. is named in *Fl. Sid.* as a Devonshire plant ; but in the absence of confirmation, it had better be left out of our list. Mr. Watson distrusts the authority : see *C.B.S.* “ Has been found on Meadfoot cliffs, but not met with of late : ” *Tor. Fl.*]

V. nigrum (L.)—*E.B.* 59.—Banks and way-sides. — **D.** Near Littlehempston : *Fl. Tot.* Dawlish ; Topsham ; Paignton ; South side of the estuary of the Taw, below Barnstaple ; Tiverton : *Rav.* Teignmouth : *Jord.* Amongst the rubbish of a lime-kiln at Tor Moham (Rev. A. Neck) ; in Long-lane, Exminster, and in a lane leading from Exminster to Kenford ; at Ilsham, near Torquay (Rev. R. P. Welland) : *Fl. Dev.* Meadfoot cliffs : *Tor. Fl.* — **C.** Near Helston ! : *Jac.* Railway, St. Austle ; Penryn, waste place by the railway station, beyond the arch ; Constantine, “ a dozen plants ; ” near St. Mawes : *Balkw.* (June, 1867). Between Craft-

hole and Looe ; near Fowey ; near Tregony : *J.B.T.* "Plentiful" about Falmouth : *Polytech.* 1856. Mr. T. R. A. Briggs has also observed this species about Penryn and Falmouth, at Mullion, and near St. Austle. Port Looe ; Portallow : *Couch.* *Dark Mullein.*

V. Blattaria (L.)—*E.B.* 393. — On gravelly banks, rare. — **D.** Near the "Camel's head" inn, on the Saltash road from Plymouth¹. "Was growing in 1856 on the cliffs above the new road [? Torquay], and most probably will be found there again ;" Dartmouth, from which situation (as I read Dr. Trimen's MS. notes) there is a specimen in Miss A. Griffiths's herbarium in the Torquay Museum : *Tor. Fl.* Between Exminster and Kenn ; Ashburton ; Chudleigh ; Lustleigh ; Teigngrace ; Stokefleming ; Kingsteignton ; Teignmouth : *Fl. Dev.* Near Bideford : *N.D.H.* Berry Pomeroy : *Stew.* in *Rav.* Heavitree : *Warr.* ib. Countess weir : *Parf.* ib. Marsh near Goodrington, rare : *Fl. Tot.* — **C.** Falmouth, rare (W. P. Cocks) : *Polytech.* 1856. In a field below Tredidwell, rare : *Couch.* St. Michael's mount : *Mr Mennell* (1869). *Moth Mullein.*

V. virgatum (With.) — *E.B.* 550. — On gravelly banks, "rare." It can scarcely be said to be rare around Plymouth ; for it is met with in several places on both sides of the Tamar. — **D.** Stoke Damerel (1848) ; on the sides of the railway cutting between Plymouth and Devonport (1866) ; Laira, near Plymouth (1852) ; Noss (1851 and 1866) ; Revelstoke churchyard (1866) ; Portlemouth, near Starcross (1859). With white flowers, near Laira-bridge, and on the Saltash road, Plymouth : *Holmes.* Near the quarry at Meadfoot ; Meadfoot cliffs : *Tor. Fl.* Torquay : *Miss A. Griffiths.* Tor-abbey grounds ; Bovey Heathfield, near Indio ; turnpike-road, near Newton-bushell : *Fl. Dev.* Near Countess weir : *Warr.* in *Rav.* Dawlish : *Lees* ib. Mary-church : *Stew.* ib.

¹ I have my doubts as to the plants found here being other than *V. virgatum* with cream-coloured flowers.

—**C.** Maker, in the Redoubt field, and in the lane near the Earl of Mount Edgumbe's farm; Rame, near the church; Looe (1866); near Helston (1864). Near Nottar bridge!: *Miss H. Large-flowered Mullein.*

Digitalis Linn. Foxglove.

D. purpurea (L.)—*E.B.* 1297.—Hedge-banks and woods. — **D.** and **C.** Abundant.

A white-flowered variety is not uncommon.

Antirrhinum Linn. Snapdragon.

* *A. majus* (L.)—*E.B.* 129.—Old walls and calcareous cliffs.—**D.** Frequent. On an old wall in Zion-street, and in several other places about Plymouth. It is stated in *W.D. & C.F.* to grow in Catdown quarries, but I never remember seeing it there. Babbicombe: *Tor. Fl.* Teignmouth: *Jord.* Totnes castle; Exeter; Chudleigh; Tor-abbey: *Fl. Dev.* Bideford: *Maw* in *Phytol.* 1853, p. 793. Morthoe: *N.D.H.* — **C.** Torpoint. Falmouth, not uncommon: *Polytech.* 1856. On old walls at Polperro, common: *Couch.* *Great Snapdragon.*

A. Orontium (L.)—*E.B.* 1155.—Dry sandy and gravelly fields.—**D.** Fields by the Teign, near Chagford!. In the neighbourhood of Chudleigh: *J.B.T. Ap.* Teignmouth: *Jord.* in *Phytol.* 1843, p. 828. Northam, N. D.: *Maw* ib. 1853, p. 793. Dartmouth: *Tor. Fl.* Paignton: *Fl. Tot.*—**C.** Cawsand!. St. Mawes: *Balkw.* Cornfields: *Miss W.* (H. S. Herb.). Trewenn and Goldenbank, rare: *Polytech.* 1856. Landaviddy: *Couch.* Near Constantine: *Balkw.* Bolgar, near Penzance: *Curn.* in *Phytol.* 1844, p. 1143. About the Lizard: *J.B.T.* *Field Snapdragon.*

Linaria Mill. Toadflax.

* *L. Cymbalaria* (Mill.)—*E.B.* 502.—Old walls and rocks.—**D.** Not infrequent. In and about Plymouth and Devonport it is abundant, and has all the appearance of being quite wild. Mutley!; Plympton; St. Budeaux; on the walls of Tamerton church. About Teignmouth: *Jord.* Very abundant on walls and rocks about Torquay: *Tor. Fl.* Brixham: *Trim.* Ivybridge: *Miss L.* Walls in and about Exeter (Mr. Jacob); walls of the vicarage and churchyard at Widdecombe-in-the-moor: *Fl. Dev.* About Totnes: *Fl. Tot.* Bideford, Southcott, &c.: *Maw* in *Phytol.* 1853, p. 793. — **C.** Near Trematon castle; near Millbrook; near Cawsand; St. Michael's mount; Lostwithiel. Falmouth: *Miss W.* (H.S.Herb.) "Said to have been introduced into Cornwall by the late Davies Gilbert, Esq., from Offord:" *Miss W.* MS. Newquay: *Mr. Mennell* (1869). *Ivy-leaved Snapdragon.* *Ivy-leaved Toadflax.*

L. Elatine (Mill.) — *E.B.* 692. — Cornfields. — **D.** Frequent. Between Hooe and Wembury; Plymstock; Bovisand; between Knackersknowle and Tamerton. Banks near Keyham, Devonport, "abundant:" *Holmes.* Ivybridge: *Miss L.* About Barnstaple: *H. Watson* in *Rav.* Morthoe; Ilfracombe: *N.D.H.* Torquay: *Stew.* in *Rav.* Exeter: *Parf.* ib. About Chudleigh: *J.B.T. Ap.* Bideford: *Maw* in *Phytol.* 1853, p. 793 Abundant in fields about Torquay: *Tor. Fl.* — **C.** Between Millbrook and Whitsand bay; Whitsand bay!. Penzance: *Gibs.* in *Phytol.* 1846, p. 678. Marazion: *Bail.* Common about Falmouth: *Polytech.* 1856. Very common in corn-fields about Polperro: *Couch.* Padstow: *Mr. Wag-horn.* *Sharp-pointed Fluellin.*

L. spuria (Mill.)—*E.B.* 691.—Gravelly and sandy cornfields.—**D.** Near Pomphlet mills, Plymstock: *Gould.* Keyham: *Bank.* (1852). Paignton: *Miss L.* Mary-church: *Tor. Fl.* Torquay:

Trim. Southcott and Westleigh, N. D.: *Maw* in *Phytol.* 1852, p. 793. Fields at Teignmouth and Kingsteignton (Mr. Anderson): *Fl. Dev.* Fields, Berryhead: *Bartl.* MS. notes. — **C.** Antony: *W. D. & C. F.* Gunwalloe! and Mullion: *Johns* ib. Helston: *Johns* in *Phytol.* 1847, p. 726. Cury-cross, near Helston: *Frean* (1868). Falmouth, “not uncommon:” *Polytech.* 1856. Marazion: *Bail.* *Round-leaved Fluellin.*

L. minor (Desf.)—*E.B.* 2014.—Sandy and gravelly fields.—**D.** ! Frequent. Catdown quarries (1863); Saltram. On waste ground, near Laira bridge, Plymouth: *Holmes.* Laira quarry, near the “Morley Arms” inn: *Hore.* Denbury, near Newton: *Miss L.* Ilsington; Bovey Tracey; Kennock: *Fl. Dev.* Paignton common: *Tor. Fl.* Quarry near Weston turnpike; field near Hampstead: *Fl. Tot. Sup.*—**C.** Near Polbathick (1862). Cultivated land, Tre-golls, Truro: *Frean* (1868). “A garden weed at Shepherd’s, Newlyn:” *Miss W.* (H. S. Herb.). *Least Toadflax.*

* *L. supina* (Desf.)—*L. maritima* *DC. Icon. Gall.* 12.—**D.** Catdown quarries, Plymouth.—**C.** Hayle: *Mr. T. Westcombe* in *Phytol.* 1848, p. 29. St. Blazey’s bay: *Mr. G. Maw*, who presented a specimen from this locality (where it was discovered by him) to the Botanical Society of London, on the 13th April, 1849.

This plant is found on ballast heaps at Plymouth, where it was discovered by either Rev. W. S. Hore or Rev. C. A. Johns. There can be no doubt of its having been introduced. Professor Babington says it may “perhaps” be “a native” in the Cornish stations.

[*L. purpurea* (Mill.)—Old walls: an escape from gardens. — **D.** Torquay (1848); elsewhere in the county, but not made a note of. — **C.** Trevollard, near Saltash (1850); near Millbrook (1850).]

L. repens (Ait.)—*E.B.* 1253. *L. striata* *DC.*—Calcareous soils, particularly near the sea, rare. — **D.** On the downs West of Christowe, near a farm called Kennock (Mr. Puddicombe): *Fl. Dev.*

Dry banks, Hempston: *Fl. Tot.* — **C.** Penryn!: *Balkw.* (1866).
Old Penryn road; parish of Mabe, &c.: *Polytech.* 1856. Near
Green-bank, Falmouth: *Frean* (1868). *Creeping Toadflax.*

—— var. **C.** Constantine (Mr. F. C. Bullmore): *Polytech.*
1856.

Mr. Bastian says that “this plant, which was formerly entered in British Flora as *L. italica*, is evidently a hybrid between *L. repens* and *L. vulgaris*, and not the true *L. italica*.”

Mr. Bastian’s opinion is supported by Mr. H. C. Watson, who remarks on the two varieties or sub-species, “*Bauhinii*” and “*sepium*,” “I doubt much whether they have been correctly referred to *L. italica*, and feel much more disposed to view them as either hybrid or simply aberrant forms of *L. repens* and *L. vulgaris*. If not hybrid, I think that the Cornish form, from the neighbourhood of Penryn, belongs rather to *L. vulgaris* than to *L. repens*.”

L. vulgaris (Mill.)—*E.B.* 658.—Hedges, &c.—**D.**! and **C.** Common. *Yellow Toadflax.*

The state called *Peloria* is occasionally found. There is a specimen from Paignton in Miss Griffiths’s herbarium (Torquay Museum).

Scrophularia Linn. Figwort.

S. nodosa (L.)—*E.B.* 1544.—Moist hedges and thickets.—**D.** and **C.** Common. *Knotted Figwort.*

[*S. Ehrharti* (C. A. Stev.)—*E.B.S.* 2875—has been reported from Cornwall; but Mr. Pascoe doubts whether it has been really seen there.—*Wats.* in litt.]

S. aquatica (L.!)—*E.B.* 854. *S. Balbisii* Horn., Koch.—In wet places.—**D.**! and **C.** Frequent.

S. Scorodonia (L.)—*E.B.* 2209.—In moist places.—**D.** Has been reported for this county, but on doubtful authority.—**C.** “West of Cornwall:” *Bab. Man.* Penzance: *Hore* in *Phytol.* 1842, p. 162. Trefusis beach; Trefusis field; and near chapel-of-case, Flushing; rare: *Polytech.* 1856. Newlyn cliff, near Pen-

zance: *Curn.* in *Phytol.* 1844, p. 1144. Scilly islands: *Towns.* in *Journ. Bot.* ii. 114. "In the road leading to Tregenna castle, the seat of Mr. Stephens [near St. Ives], in great abundance: *J.B.T.* Yearl's Coomb, near Trelawny, rather rare: *Couch.* Newquay: *Menn.* (1869). By the roadside beyond Newlyn; at Chyandower, on the road to St. Ives; by the cross on the Land's-end road, about two miles from Penzance; and also near St. Ives, in ascending the hill on the old road: *Gibs.* in *Phytol.* 1846, p. 768.

† *S. vernalis* (L.)—*E.B.* 567.—"Differing greatly from the other species and allied in appearance to some of the *Calceolaria*" (Bab. Man.)—Waste places, rare.—**D.** Ham!, near Plymouth (1861). (Scarcely established there.)

Melampyrum Linn. Cow-wheat.

M. pratense (L.)—*E.B.* 113.—Woods and thickets.—**D.**! and **C.** Common.

[*M. sylvaticum* (L.) is reported to have been found at Lydford waterfall, and in Hempston woods, Devon; but we may scarcely venture to accept the report. Its true home is in Alpine woods. Mr. H. C. Watson (*Cyb. Brit.* ii. 210) places its South limit in York, adding that "it may be said almost confidently that in half the counties on record as producing this species only *M. pratense* has been really found; the usual situation of the latter in woods and shaded spots, with much similarity of habit and character, leading to the frequent misapplications of name."]

[*Mimulus luteus* (Willd.)—a native of America—is naturalized in many boggy places in Britain. Mr. T. R. A. Briggs records, in *Journ. Bot.* iii. 351, that it grows plentifully on a sand-bank in the bed of the Erme, near Erme-bridge, Devon. He thinks it may have been derived from some garden at Ivybridge, a village on the river, about three miles above, where he has seen it in cultivation.]

Pedicularis *Linn.*

P. palustris (L.)—*E.B.* 399. — Marshy and boggy places. — **D.** Common. Keyham, near Devonport (1844); banks of the Meavy river (1861); Roborough down!; Ugborough beacon, at the foot; near Vixen tor and elsewhere on Dartmoor; Tavistock; Ivybridge. Boggy meadow above Dewerstone rocks; bog near Hooe-meavy bridge: *Holmes*. Sweetcombe hill: *Fl. Sid.* Near Ilfracombe: *Rav.* Teignmouth: *Jord.* Forde bog; Bovéy heath; moor near Chagford: *Tor. Fl.* About Chudleigh: *J.B.T. Ap.*—**C.** Not uncommon about Falmouth: *Polytech.* 1856. St. Keverne: *Balkw.* Common in marshy soils [Polperro]: *Couch.* Gloweth, near Truro: *Frean.* Sandplace, near Looe, side of canal: *Holmes.* *Marsh Lousewort.* *Tall Red Rattle.*

P. sylvatica (L.)—*E.B.* 399.—Wet heathy and rather hilly pastures.—**D.**! and **C.**!. Common. *Red Rattle.* *Pasture Lousewort.*

Rhinanthus *Linn.* *Yellow Rattle.*

R. Crista-galli (L.)—*E.B.* 657. *R. minor* (Ehrh.) — Meadows, pastures, and hedges.—**D.**! and **C.** Common.

R. major (Ehrh.)—*E.B.S.* 2737.—**D.** Unreported.—**C.** Trelen, Mylor: *Miss W.* (H. S. Herb.). “Found by Mr. W. P. Cocks” (locality not mentioned): *Polytech.* 1856. I admit this species with hesitation. It is not, however, improbable that this and the last species are frequently mistaken the one for the other.

Eufragia *Griseb.* *Marsh Eye-bright.*

E. viscosa (Benth.)—*E.B.* 1045. *Bartsia* Sm.—“Damp places in the West of England,” &c. (*Bab. Man.*). Between Ivybridge and Keaton (1849); near Ivybridge (1865); near Shaugh bridge

(1865). Bovisand : *Gould*. Goodameavy : *Jul*. Bickleigh vale¹ : *Mr. T. Diment* (1847). Braunton burrows : *Maw* in *Phytol.* 1853, p. 788. Bovey Heathfield ; Dartmouth ; Exmouth warren ; fields at Instow (Dr. Wavell) ; hills above Bigbury bay (Mr. Yonge) : *Fl. Dev.* Near Whistley cross : *N.B.G.* Near Bow village, between Totnes and Newton : *Fl. Tot.* Between Dawlish and Starcross, abundant in 1864 : *Parf.*—**C**. Weir head, r. Tamar : *Read.* (1863). Near the pound, Antony ; plentifully in a field between Trevol and St. John's : *W.D. & C.F.* (Now I believe rare in these situations.) "Very common" in marshy soils [Polperro] : *Couch.* Near Fowey ; near Tregony ; near St. Just ; between Falmouth and Helford ; near the Land's-end ; about St. Ives : *J.B.T.* Mr. F. P. Balkwill found it common throughout the whole of the Lizard district in 1867. He found it also by the wayside at Devoran and Constantine, and very plentiful in fields at Manaccan. Mr. T. R. A. Briggs found it, two or three years since, near Truro, &c., and "quite common" in the South-east of the county. Damp meadows about Falmouth, plentiful : *Polytech.* 1856. Sennen church-town : *Bail.* Mr. R. Frean found it near South Chiverton mine, Truro, in 1868, and says, with Mr. Balkwill, that it is "abundant in the Lizard district." Newquay : *Menn.* (1869).

Euphrasia *Linn.* Eye-bright.

E. officinalis (L.)—*E.B.* 1416.—Pastures, woods, heaths. — **D.** and **C**. Common. *Common Eye-bright.*

E. Odontites (L.)—*E.B.* 1415.—Corn-fields and waste places.—**D.** and **C**. Common.

Sibthorpia *Linn.* Cornish Money-wort.

S. europæa (L.)—*E.B.* 649.—A local plant, not known in more than five counties (*Cyb. Brit.*) "Damp shady places in the South

¹ A specimen from Bickleigh vale is in Miss A. Griffiths's herb. (Tor. Mus.)

and South-west" (*Bab. Man*)—**D**. It is said in *Fl. Dev.* to be confined to the South of the county and to be "rare." Opportunity has not been afforded me for searching much for it in the North, but it can scarcely now be considered rare in the South. Bickleigh; Shaugh; Meavy; Dartmoor; banks of the Yealm and Erme rivers. Marshes at Staverton and Rattery: *Fl. Tot.* Between Newbridge and Spitchwick lodge; about the springs in the village of Tor, near Harford (Sir F. Drake and Mr. Hudson); marsh at Sherford; Cornwood (Herb. in Dev. and Ex. Inst.): *Fl. Dev.* Bickleigh vale: *Jul.* Banks of the Plym: *Warr. in Rav.* Tiverton: *Miss J. Gray* ib. Holne-chase; Ivybridge: *Park.* ib. Badgeworth: *Mr. R. J. Gray* ib. — **C**. Trevarben mill, near Liskeard; rivulet, East of Sharrow grot, Whitsand bay; St. Knighton's keeve, near Tintagel. Near Fowey, abundant; between Fowey and St. Austle; near Ruan Lanyhorne; near Bodmin: *J.B.T.* Scilly isles: *H.B.F.* Newlyn cliff, near Penzance: *Curn. in Phytol.* 1844, p. 1144. Treleague; Carne, St. Anthony; St. Keverne: *Balkw.* Trevethan lane, College wood, &c. [Falmouth], "plentiful:" *Polytech.* 1856. St. Madron's well: *Bail.* "Abundant in moist hedges" [Polperro]: *Couch.* Newquay and Penzance: *Menn.* "From the Land's-end [C.] to Dartmouth [D]:" *Barth.* MS. notes.

Veronica *Linn.* Speedwell.

V. scutellata (L.)—*E.B.* 782.—In boggy places. — **D**. Not unfrequent. Banks of the Erme!, between Ivybridge and Keaton. Miss K. Lothmann found it "common" about Ivybridge. Hanger down, near Harford bridge: *Frean* (1868). According to *W.D. & C.F.* it used to grow very plentifully above the weir on the Plym near Cann quarry (*auct.* Rev. W. S. Hore); but I have not seen it there, nor have I heard of its occurrence there in late years. Roborough down: *Briggs in Phytol.* n.s. vi. 354. Dartmoor: *Per. Dart.* Bogs on Haldon; Bovey Heathfield; Borringdon moor; Ilsington; Holwell; near Manaton, &c.; Broadelist (Rev. R. P. Welland):

Fl. Dev. Forde bog, near Newton : *Tor. Fl.* Marsh, near Clovelly : *Johns* in *W. D. & C. F.* — **C.** Trehill, near Helston : *Mr. C. Kingsley* in *W. D. & C. F.* Gwyllyn-vase, College, and Nangitha marshes, rare : *Polytech.* 1856. Between St. Michael's and Gorse-moor : *J.B.T.* In a bog in East-court wood, near Lanreath : *Couch.* *Narrow-leaved Marsh Speedwell.*

V. Anagallis (L.) — *E.B.* 781. In stagnant water. — **D.** Not common. Banks of the Plym ; Bickleigh vale ; on the banks of the Tamar, not far from the Weir-head [now I fear lost in these stations] ; Branton burrows (Mr. C. Kingsley) : *W. D. & C. F.* Banks of the Teign : *Jord.* in *Phytol.* 1843, p. 827. Mill leat ; brook near Ambrook ; Bridgetown marsh : *Fl. Tot.* Banks of the Clyst, by St. Mary's-bridge ; Marpool, near Exmouth (Rev. J. Jervis) ; Borringdon moor (Mr. Wavell) ; Marychurch, rare (Rev. A. Neck) : *Fl. Dev.* Goodrington marsh : *Park.* in *Rav.* Upton lanes and Forde bog : *Stew.* *ib.* Haldon : *Parf.* *ib.* Near Tor-abbey ; lanes about Mary-church : *Tor. Fl.* Paignton : *Miss L.* — **C.** Near Calstock ! : *Jac.* (A specimen from this locality, collected by same gentleman, is also in H.S.Herb.). Near College, rare (W.P.Cocks) : *Polytech.* 1856. *Water Speedwell.*

V. Beccabunga (L.) — *E.B.* 655. — Ditches and streams. — **D.** and **C.** Common. *Brook-lime.*

—— *β. V. limosa* (Lej.), described in *Bab. Man.* 5th ed., and stated to have been discovered at Dalkeith park near Edinburgh by Professor Balfour (but regarded in the 6th ed. of the same work as merely an occasional form of *V. Beccabunga* and not a permanent variety), is stated in *Rav.* to have been found at St. Mary's-clyst, by Mr. G. W. Gissing.

V. Chamædrys (L.) — *E.B.* 623. — Hedge-banks. — **D.** ! and **C.** !. The hedges in both counties are adorned with it in the Spring. *Germander Speedwell.*

A white-flowered variety is sometimes seen.

V. montana (L.)—*E.B.* 766.—Woods and thickets in hilly districts.—**D.** Manadon wood!; Widey; Efford; Saltram; woods by the side of the Plym; banks of the Erme, above Ivybridge. Warleigh wood: *W.D. & C.F.* Ivybridge: *Miss L.* Ilsington; Bovey Tracey; Tor-abbey; Kent's-hole; Withecombe wood; woods at Cowley, &c.: *Fl. Dev.* Kent's cavern, near Torquay; Cockington: *Rav.* Torquay (Herb. Miss A. Griffiths): *Trim.* Neighbourhood of Ilfracombe: *N.D.H.*—**C.** Between Torpoint and St. John's (1866). Pellean plantation, near Pelynt, rare: *Couch.* Cotehele!: *Miss H.* College and Trefusis woods; Trigoniggy marsh; Trevethan lane, &c., plentiful: *Polytech.* 1856. *Mountain Speedwell.*

V. officinalis (L.)—*E.B.* 765.—Dry banks and heaths.—**D.** and **C.** Common. *Common Speedwell.*

V. spicata (L.) — *E.B.* 2.—Rare. — **D.** Dartington copse, dry places: *Fl. Tot.* Lundy island (P. H. Gosse): *N.D.H.*

I am apprehensive of error in these records; for, although in *Bab. Man.* it is said (in general terms) to grow "on limestone cliffs," yet two particular stations are named, *viz.* "chalky heaths near Newmarket and Bury." It has also been reported for Cornwall, but this, Mr. Watson says, "requires verification."

V. serpyllifolia (L.)—*E.B.* 1075.—Roadsides and damp places; often on garden walls and hedges.—**D.** and **C.** Common. *Thyme-leaved Speedwell.*

— *β. V. humifusa* (Dicks.) Does this mountain form or variety of *V. serpyllifolia* really occur (as recorded in *Rav.*) on Dartmoor, at Hartland, and Clovelly? Prof. Babington locates it in the Highland mountains. Mr. Watson knows of it only in mountainous counties, placing its South limit in Caernarvon.

V. arvensis (L.) — *E.B.* 734. — Gravelly and sandy places. — **D.** and **C.** Common. *Small Speedwell.*

V. agrestis (L.)—*E.B.S.* 2603. — Fields and waste places. — **D.** and **C.** Common. A white-flowered var. is not uncommon about Falmouth: *Polytech.* 1856. *Procumbent Speedwell.* *Green Field Speedwell.*

V. polita (Fries). — *E.B.* 783. — Fields and waste places. — **D.** Not noticed in *Fl. Dev.* Frequent about Plymouth!, e.g. Townsend hill (1851). (Most likely now extinct in this habitat.) Efford (1861); Tothill, in fields (1861); Efford; Saltram (1863). Tavistock. Plentiful about Barnstaple and Ilfracombe: *Rav.* Teignmouth: *Jord.* Warberry hill; walks at Meadfoot, &c.: *Tor. Fl.* About Totnes: *Fl. Tot.* A large-flowered variety (sometimes called *β. grandiflora*), at Marychurch: *Rav.*—**C.** Saltash (1866); between Cremyll and Maker church (1866). Falmouth, “not common:” *Polytech.* 1856. Polperro: *Couch*, who remarks that this and *V. agrestis* are usually found growing together, and are common as weeds in gardens. The same thing occurs about Plymouth. I have been sometimes puzzled to distinguish them. *Gray Field Speedwell.*

* *V. Buxbaumii* (Ten.)—*E.B.S.* 2769.—Fields, most frequently cultivated fields and their borders especially.—**D.** Not noticed in *Fl. Dev.*, perhaps because scarcely introduced at the date of that book (1829). In 1844 it was very rare about Plymouth!, only one or two stations being then known for it; but now there are very few cultivated fields without it. Mutley (1845); Weston mills; Lipson; near Compton; Egg-buckland; fields near Stoke churchyard, Devonport; near Crabtree (1861); near Leigham mills (1861.) Northam: *Maw* in *Phytol.* 1853, p. 793. Torquay: *Park.* in *Rav.* Exeter, plentiful: *Parf.*—**C.** Weed in a garden at Wear, near Millbrook (1849); on Ninny farm, same neighbourhood; fields near Torpoint; Saltash; between Cawsand and Rame; Looe.

Not uncommon about Falmouth, in waste places and on cultivated land : *Polytech.* 1856.

V. hederifolia (L.)—*E.B.* 784. —Fields and banks. — **D.** and **C.** Common. *Ivy-leaved Speedwell.*

[“*Acanthus mollis*, belonging to the order *Acanthaceæ*, has been introduced by unknown agency into the Isle of St. Agnes, Scilly (*A.N.H.* ser. 2. viii. 505), but has very slender claims to be included in the British Flora.”—*Bab. Man.* (1867).]

This plant is not now restricted to the Scilly islands. It appears to be spreading and likely to establish itself in the West of Cornwall. Mr. F. P. Balkwill observed it outside an orchard hedge at Rosenithon, St. Keverne, in 1867 ; and I feel almost assured that it has been reported to me from other places on the mainland.

(*To be continued.*)

LIST OF BOOKS,
ETC.,
WRITTEN IN OR RELATING TO THE
DIALECTS OF DEVON.

COLLECTED BY
MR. JOHN SHELLY.

LIST OF BOOKS, ETC., WRITTEN IN OR RELATING
TO THE DIALECTS OF DEVON.

1 (*a*). The Obliging Husband and Imperious Wife ; or the West Country Clothier undone by a Peacock, with the pleasant and comical Humours of honest Humphrey, his Man, in witty and ingenious Dialogues. 1717. 12mo. Woodcut frontispiece in compartments.

A copy was offered by Mr. Lilly in 1868 for £2. 2s.

(*b*). The Obliging Husband and Imperious Wife, or the West-country Clothier undone by a Peacock. In dialogues, one of which is between Mr. Wilmot, a West-country Clothier at Crediton in Devonshire, and a Gentlewoman of good fortune in Exeter, and Honest Humphrey the Clothier's Man, with the Intrigues of their Courtship. London, 1722.

(*c*). The Honest London Spy. Part 3. The Pleasant and Comical Humours of Honest Humphrey, in dialogues between an Obliging Husband and an Imperious Wife ; between Mr. Wilmot a West Country Clothier at Crediton, undone by a Peacock, a Gentleman of good Fortune in Exeter, and honest Humphrey his Man, &c., discoursing how extravagant Wives consume their Husbands' Estate and bring them to ruin. 1731. Frontispiece.

This is a specimen of the Dialect of Devon. *Davidson's Bibliotheca Devoniensis.*

2. An Exmoor Scolding; in the Propriety and Decency of Exmoor Language, between two sisters, Wilmot Moreman and Thomasin Moreman, as they were spinning. Exeter, 1746. 4to.

Exmoor Courtship; or a suitoring Discourse in the Devonshire Dialect and mode near the Forest of Exmoor. Exeter, 1746. 4to.

This "Discourse" is printed in the Gentleman's Magazine for 1746 from a copy furnished by a correspondent whose letter is signed "H. Oxon." Another correspondent signing "Devonienis" contributes "an Exmoor Vocabulary" printed in the same volume of the Magazine, p. 405. A sixth edition of the Scolding and Courtship appears to have been published at Exeter in 1768, (the date is erroneously printed 1668). There were two editions (the seventh and eighth) in 1771, and subsequent editions in 1782, 1788, 1793, 1794, 1795, 1802, 1818, 1827, 1830, and 1839. There is a Glossary at the end.

A portion of the Courtship was printed in Blackwood's Magazine for February, 1819, with a paraphrase in blank verse, and notes.

The correspondent of the Gentleman's Magazine states that the "Discourse" was "first written by a clergyman of Devonshire, near the forest of Exmoor." In the preface to the seventh edition the collection is said to have been "originally made about the beginning of the present century by a blind itinerant Fiddler (one *Peter Lock*, of North-Moulton, or its neighbourhood)";—the Scolding having been put into its present form by a neighbouring clergyman, by whom it was communicated to the editor of the first and subsequent editions, who perfected the Courtship. But Sir John Bowring says (Transactions of the Devonshire Association, part v., p. 28) "the authors of the *Exmoor Scolding* and *Exmoor Courting* were Andrew Brice and Benjamin Bowring. The former was a learned and laborious bookseller in Exeter. . . . The latter . . . was the grandson of a John Bowring of Chumleigh, who was largely engaged in the woollen trade."

3. The Royal Visit to Exeter; a Poetical Epistle by John Ploughshare, a farmer of Morton Hampstead in the County of Devon. Published by Peter Pindar, Esq. (Dr. Wolcot). London, 1795. 4to.

This is included in the collected Works of Peter Pindar, Esq., London, 1812, and will be found in vol. iii, p. 465. In vol. iv. are two poems in the

dialect, Devonshire Hob's Love, p. 107, and the Middlesex Election, or Poetical Epistles, in the Devonshire dialect, by Mr. Joseph Budge, in London, to Lord Rolle, at Weymouth, p. 429.

4. *The Royal Progress to Maidstone* ; by Jan Ploughshare, of Devonshire. Rochester : Printed by W. Epps, Troy-town. N.D. 8vo. 28 pp.

Apparently an imitation of Peter Pindar. On the title page of the copy lent me by Mr. W. W. Robinson, of Oxford, some person has written "by Keys, a Dancing Master." The running title is *The Kentish Review*, etc. It begins as follows :—

Jan Ploushare, once of Devonshire
Was toir'd of ztaying zo long there,
Among the volks o' the west,—
Therefore a zaid a'd tak a walk,
To Lunnon Zity, vor to talk
Wi' the wize men o' the East.

Jan having zeen the wond'rous zoights !
In Lunnon, both by days and noights,
Zurprizing to be hurd ;
A thoft of going home again,
But ztayed to zee the virst of men,
The great King George the third.

And hearing Maister King were bent,
To tak a journey down in Kent,
To veiiv the vollunteers :
Jan zaid a would go down along,
And mix among the moighty throng
To veiiv mun and his peers.

5. *The Rural Economy of the West of England*, including Devonshire, and parts of Somersetshire, Dorsetshire, and Cornwall. By Mr. Marshall. London, 1796. 2 vols. 8vo.

Vol. 1 contains a Glossary of the Provincialisms of West Devonshire.

6. *A provincial Vocabulary* ; containing, for the most part, such words as are current amongst the common people in Devonshire and Cornwall. *Monthly Magazine*, vol. xxvi. [1808], p. 421, 544, vol. xxix. [1810], p. 431.

This vocabulary is incomplete, extending only as far as Gi, and it does not appear to have been continued.

7 (a). A Dialogue in the Devonshire Dialect, (in three parts). By a Lady; to which is added a Glossary, by J. F. Palmer. London, 1837. 8vo.

This is said to have been printed from an incomplete copy, but it differs in many respects from the next edition. Palmer's Glossary is much more copious than that of Phillipps, appended to the subsequent editions of the Dialogue.

(b). A Devonshire Dialogue, in four parts: to which is added a Glossary, for the most part by the late Rev. John Phillipps, of Membury, Devon. Edited by Mrs. Gwatkin. London, 1839. 12mo.

(c). The Courtship of Roger and Bet, with a Glossary Devonport, 1868. A reprint of the edition of 1839.

The Dialogue was written by Mrs. Palmer, a sister of Sir Joshua Reynolds. It is in the Dialect of North Devon.

8. Rustic Sketches, being Poems on Angling, in the Dialect of East Devon, by Piscator [Mr. George Pulman, of Axminster]. Taunton, 1842.

9. Poetical Letters tu es brither Jan, and a Witch Story, tha old Humman way the urd Cloke, ur tha evil Eye, in the Devonshire Dialect. By Nathan Hogg. Fourth edition. London, 1860. 12mo.

By Mr. Henry Baird of Exeter. This fourth edition is altered and enlarged. The 3rd edition is dated 1858.

10. A New Series of Poems in the Devonshire Dialect: including the Witch Story of Mucksy Lane, and the Kenton Ghost. By Nathan Hogg. Fourth edition. London, 1866. 12mo.

11. The Song of Solomon in the Devonshire Dialect. From the authorised English Version. By Henry Baird, author of "Nathan Hogg's Letters and Poems" in the same dialect. [Londres, 1860]. 16mo.

250 copies printed at the cost of Prince Louis Lucien Buonaparte.

12. The Song of Solomon in the East Devonshire Dialect. From the authorised English Version. By George P. R. Pulman. [Londres, 1860]. 16mo.

250 copies printed at the cost of Prince L. Lucien Buonaparte.

13. The Gospel of St. Matthew, translated into Western English as spoken in Devonshire, by Henry Baird. Londres, 1863. 16mo.

250 copies printed at the cost of Prince L. Lucien Buonaparte.

14. Language, with Special reference to the Devonian Dialects. By Sir John Bowring, L.L.D., F.R.S., M.R.A.S., etc. Printed in the Transactions of the Devonshire Association, part v. (1866) pp. 13-38.

15. Glossary of the Devon Dialect. [Preliminary list.

A list of about 800 words printed on a sheet for private circulation, by John Shelly, in November, 1868.

There is a list of a few Devonian Provincialisms in the Transactions of the Philological Society, 1854, p. 84, and some will be found occasionally noted in Notes and Queries.

The Compiler of this List will be glad to receive any corrections or additions; which may be addressed to him at Frankfort Chambers, Plymouth.

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